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LAKE ERIE OHIO INTAKE WATER QUALITY SUMMARY 1969

Ohio Department of Health
Columbus, Ohio

June 1970

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ENVIRONMENTAL PROTECTION AGENCY
OHIO DISTRICT OFFICE
21929 LORAIN ROAD
FAIRVIEW PARK, OHIO 44126

PB 230 271

LAKE ERIE OHIO INTAKE WATER QUALITY SUMMARY

1969

U. S. DEPARTMENT OF THE INTERIOR
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION

OHIO DEPARTMENT OF HEALTH
BUREAU OF ENVIRONMENTAL HEALTH - DIVISION OF ENGINEERING

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314

ERRATA SHEET - 1969 INTAKE REPORT

TABLE 4

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Page 168	
Date	T. Coli.
10-5-69	430
10-6-69	430
10-7-69	91
10-8-69	930
10-9-69	9,300
10-10-69	1,500
10-11-69	2,400
10-12-69	2,000
10-13-69	46,000
10-14-69	110,000
10-15-69	24,000
10-16-69	24,000
10-17-69	110,000
10-18-69	240,000
10-19-69	15,000
10-20-69	4,300
10-21-69	24,000
10-22-69	24,000
10-23-69	24,000
10-24-69	24,000
10-25-69	4,300
10-26-69	2,400
10-27-69	9,300
10-28-69	9,300
10-29-69	930
10-30-69	930
10-31-69	930

Page 169	
Date	T. Coli.
Oct. Avg.	23,081
Max.	240,000
Min.	36
11-1-69	9,300
11-2-69	2,400
11-3-69	4,300
11-4-69	9,300
11-5-69	110,000
11-6-69	24,000
11-7-69	4,300
11-8-69	2,400
11-9-69	1,500
11-10-69	930
11-11-69	1,500
11-12-69	2,400
11-13-69	110,000
11-14-69	9,300
11-15-69	110,000
11-16-69	24,000
11-17-69	24,000
11-18-69	1,500
11-19-69	930
11-20-69	240,000
11-21-69	4,600
11-22-69	7,500
11-23-69	12,000
11-24-69	15,000

Page 170	
Date	T. Coli.
11-25-69	2,000
11-26-69	24,000
11-27-69	2,400
11-28-69	9,300
11-29-69	2,400
11-30-69	21,000
Nov. Avg.	25,634
Max.	240,000
Min.	930
12-1-69	< 110,000
12-2-69	15,000
12-3-69	4,300
12-4-69	9,300
12-5-69	24,000
12-6-69	4,300
12-7-69	1,500
12-8-69	2,400
12-9-69	4,300
12-10-69	2,400
12-11-69	4,300
12-12-69	24,000
12-13-69	240,000
12-14-69	2,400
12-15-69	24,000
12-16-69	93,000
12-17-69	2,400

Page 171	
Date	T. Coli.
12-18-69	9,300
12-19-69	24,000
12-20-69	4,300
12-21-69	9,300
12-22-69	2,400
12-23-69	2,400
12-24-69	24,000
12-25-69	2,400
12-26-69	430
12-27-69	2,400
12-28-69	4,300
12-29-69	210
12-30-69	230
12-31-69	930
Dec. Avg.	21,103
Max.	240,000
Min.	210

TABLE OF CONTENTS

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	Page
INTRODUCTION	1
PROGRAM AND METHODS	1
WATER INTAKE LOCATIONS	2
WATER INTAKE PHYSICAL DATA	4
SEDIMENT-CHEMICAL CHARACTERISTICS	5
SEDIMENT-PHYSICAL AND BIOLOGICAL CHARACTERISTICS	6
LIST OF ABBREVIATIONS FOR DATA COMPILATION	8
WATER-MICROBIOLOGY, CHEMISTRY	10
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS	232
HEAVY METALS, CYANIDE, ARSENIC, FLUORIDE	250
PLANKTON	257
DOMINANT PHYTOPLANKTON	275

INTRODUCTION

The following is the second summary of progress to date on the cooperative water quality surveillance program between the Ohio Department of Health, municipalities, and the Federal Water Quality Administration at 17 Ohio water treatment intakes in Lake Erie (see Fig. 1).

This continuing program is a part of the overall Ohio Department of Health system of monitoring interstate waters for water quality standards compliance. In addition it supplements Federal efforts in the surveillance of Lake Erie waters as instructed by the Lake Erie Enforcement Conference. Finally an expansion of the normal municipal monitoring of raw and finished water for treatment requirement and quality control purposes substantially aids in the successful production of a more palatable product especially during periods of algae-caused consumer distress.

All water quality information is being entered into the STORET data processing system as used by the Federal Water Quality Administration and the Ohio Department of Health.

Program and Methods

The program was initiated in March 1968 by the Ohio Department of Health and the FWQA, with municipal participation beginning in July 1968. Since that time however, the program has been expanded to include Lake Erie intakes in Pennsylvania and New York.

As part of the cooperative effort the Ohio Department of Health is making bimonthly determinations for toxic materials. These include zinc, silver, copper, chromium, nickel, cadmium, lead, arsenic, and cyanide.

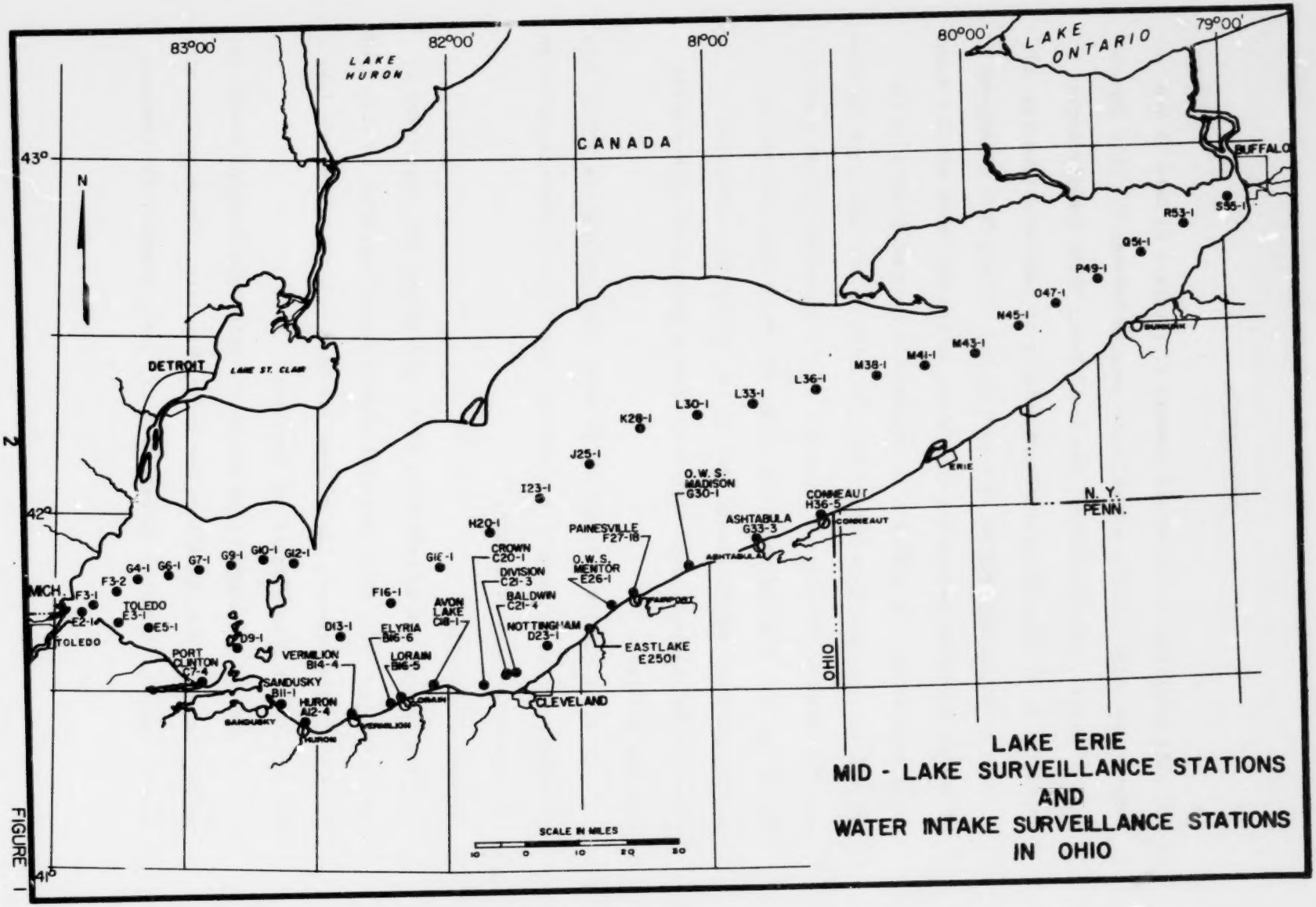

FIGURE 1

LAKE ERIE
MID - LAKE SURVEILLANCE STATIONS
AND
WATER INTAKE SURVEILLANCE STATIONS
IN OHIO

In addition, the same agency is inspecting and guiding municipal laboratories to insure that standard procedures for water analysis are being employed.

The municipalities, which normally are concerned with only a few water quality parameters in producing a potable and palatable water, have comprehensively increased their analytical characterizations to include continuous temperature recording, pH, conductivity, total dissolved solids, turbidity, total iron, total manganese, chloride, sulfates, total bacteria, total and fecal coliforms, alkalinity, hardness, and chlorine demand.

The FWQA is making all sample collections for both the State and Federal aspects of the program. In addition, the FWQA is making the following biweekly determinations: DO, total phosphorus, soluble phosphorus, orgainc nitrogen, ammonia, nitrate, chemical oxygen demand, and plankton evaluations. Finally the same agency is making physical, biological, and chemical studies of the bottom sediments in the vicinity of each intake crib.

The analytical methods used by the municipalities and the FWQA are found in "Great Lakes-Illinois River Basin Chemistry Laboratory Manual, Lake Michigan Basin Office", "Laboratory Manual, Lake Erie Basin Office", and in "Standard Methods for the Examination of Water and Wastewater", 12th ed. Toxic materials analysis made by the Ohio Department of Health is performed spectrometrically employing atomic absorption.

Tables 1 and 6 show data supplied by the Ohio Department of Health. Table 4 contains municipal data. Tables 2,3,5,7 and 8 show data supplied by the Federal Water Quality Administration. The abbreviations for data compilation are listed on pages 8 and 9.

TABLE 1

SUMMARY OF WATER INTAKE PHYSICAL DATA

Location Number	Intake	Latitude	Longitude	Total** Depth (ft.)	Intake** Depth (ft.)	Intake Line Diameter (in.)	Intake Line Type	Distance from shore (ft.)	%WA	%WB
E3-1	Toledo	41°42'00"	83°15'32"	17	10±5	108	C	11,000	50	50
C7-4	Port Clinton	41°31'22"	82°56'21"	8	4	30	C	2,000	75	25
B11-1	Sandusky	41°27'51"	82°38'50"	21	16	42	S	2,900	100	0
A12-4	Huron	41°24'23"	82°33'24"	15	10	36	C	2,100	100	0
B14-4	Vermilion	41°25'42"	82°22'09"	11	7	18	S	1,200	100	0
B16-6	Elyria	41°27'26"	82°13'15"	20	11	42	I	1,200	100	0
B16-5	Lorain	41°28'21"	82°11'41"	24	11	48	I	1,100	95	5
C18-1	Avon Lake	41°30'46"	82°02'36"	21	18	36	C	2,000	100	0
C20-1	Cleveland-Crown	41°31'08"	81°52'46"	44	*19	96	C	13,000	100	0
C21-3	Cleveland-Division	41°32'50"	81°45'50"	50	34	120	C	20,000	100	0
C21-4	Cleveland-Baldwin	41°32'54"	81°45'02"	47	17±9	108	C	17,000	50	50
D23-1	Cleve.-Nottingham	41°37'05"	81°37'02"	49	38	120	C	18,000	100	0
E26-1	O.W.S. - Mentor	41°43'34"	81°22'05"	17	14	36	C	2,000	100	0
F27-18	Painesville	41°45'24"	81°17'53"	11	6	24	I	1,100	50	50
G30-1	O.W.S. - Madison	41°50'00"	81°04'38"	20	16	24	I	1,800	95	5
G33-3	Ashtabula	41°54'30"	80°48'38"	23	20	30	C	1,600	95	5
H36-5	Conneaut	41°57'54"	80°34'38"	19	13	24	I	2,000	100	0

Notes:

* Depth of intake as of 9/17/68. Previous depth was 34 feet.

** All depths referred to mean low water level (568.6 feet).

Abbreviations:

C - Concrete

I - Iron

S - Steel

%WA - Percent of raw water from above center line of inlet port.

%WB - Percent of raw water from below center line of inlet port.

TABLE 2

SEDIMENT CHEMISTRY
mg/g

Station	PO_4-P	Percent Solids	Volatile Solids	Total Kjeldahl Nitrogen	Oil & Grease	Total Iron	COD
Toledo*	--	--	--	--	--	--	--
Port Clinton	0.46	51.71	59.24	1.45	2.77	17.5	44.08
Sandusky	0.57	52.89	65.44	1.58	4.37	17.0	46.76
Huron	0.42	72.69	19.63	0.29	2.13	12.4	12.46
Vermilion*	--	--	--	--	--	--	--
Lorain	0.35	70.46	26.01	0.60	2.97	22.3	24.91
Elyria	0.35	75.23	26.64	0.50	1.45	22.0	27.10
Avon	0.46	75.70	14.05	0.28	1.69	80.2	19.10
Cleve-Crown	0.42	50.63	56.01	1.60	1.72	30.3	18.20
Cleve-Division	0.69	72.77	17.91	0.34	0.68	50.4	24.57
Cleve-Baldwin	0.65	60.76	23.90	1.29	1.45	46.2	37.22
Cleve-Nottingham	0.51	46.80	37.41	1.69	2.08	44.2	50.20
Mentor	0.26	73.90	8.97	0.16	0.43	29.2	10.16
Painesville	0.17	78.06	13.43	0.22	0.33	13.6	11.79
Madison	0.44	58.18	37.36	1.01	3.18	32.1	53.57
Ashtabula	0.33	76.29	10.99	0.25	0.75	53.7	18.44
Conneaut*	--	--	--	--	--	--	--
Average (West	0.94	--	81.0	2.2	--	32.4	66.1
Midlake (Cent.	0.72	--	63.0	1.8	0.42	35.5	41.0
Sediment (East	0.93	--	57.0	1.9	--	35.1	48.0

* Substrate such to make sampling for chemical analysis impossible

TABLE 3

SEDIMENT - PHYSICAL AND BIOLOGICAL CHARACTERISTICS

Municipality	Bottom Sediment Description at Water Intake (1000 ft. Radius)	
	Physical	Biological
Toledo	Grey-black sludge, some coarse sand and gravel marshy odor	Tubificidae, Chironomidae, Sphaeridae, Nematoda, Pulmonata
Port Clinton	Rocky, coarse brown and grey sand, no odor detectable	Tubificidae, Chironomidae, Unionidae, Nematoda
Sandusky	Grey-black sludge with brown overlay, marshy odor	Chironomidae, Tubificidae, Unionidae, Sphaeriidae
Huron	Fine brown sand, grey sludge, shale, no odor detectable	Chironomidae, Tubificidae, Amphipoda, Isopoda, Tricoptera, Prosobranchia
Vermilion	Very rocky, shale, fine sand, no odor detectable	Amphipoda, Tricoptera, Ephemeroptera, Turbellaria, Tubificidae, Chironomidae
Elyria	Very rocky, coarse sand and gravel, fishy odor	Amphipoda, Hydrabryazoa, Turbellaria, Ephemeroptera, Tricoptera, Hirudinea, Tubificidae, Chironomidae
Lorain	Very rocky, grey-brown fine sand, some sludge, slightly septic odor	Chironomidae, Tubificidae, Bryozoa, Tricoptera, Hirudinea, Turbellaria, Amphipoda, Ephemeroptera
Avon	Very rocky, shale, fine dark brown sand, some clay, no odor detectable	Tubificidae, Isopoda, Amphipoda, Hirudinea, Tricoptera, Hydra, Bryozoa Pulmonata, Chironomidae, Prosobranchia, Turbellaria, Ephemeroptera
Cleveland Crown	Grey-black sludge, clay, heavy light-brown overlay, fishy odor	Tubificidae, Nematoda, Unionidae, Chironomidae

TABLE 3 (Concluded)

SEDIMENT - PHYSICAL AND BIOLOGICAL CHARACTERISTICS

Municipality	Bottom Sediment Description at Water Intake (1000 ft. radius)	
	Physical	Biological
Cleveland Division	Coarse sand, some grey black sludge, some oil, fishy, oil odor	Tubificidae, Isopoda, Nematoda, Chironomidae, Prosobranchia, Sphaeriidae
Cleveland Baldwin	Rocky, coarse grey sand, some grey-black sludge, fishy, septic odor	Tubificidae, Chironomidae, Sphaeriidae, Isopoda, Hydra, Bryozoa, Nematoda
Cleveland Nottingham	Grey-black sludge, light brown overlay, coarse sand, some oil, septic odor	Tubificidae, Chironomidae, Hirudinea, Isopoda, Prosobranchia, Sphaeriidae
Ohio Water Service Mentor	Rocky, coarse sand and silt, some fine grey-brown sand, fishy odor	Ephemeroptera, Tricoptera, Amphipoda, Prosobranchia, Hydra, Bryozoa, Unionidae, Amphipoda, Chironomidae, Tubificidae, Hirudinea, Sphaeriidae
Painesville**	Fine brown sand, no odor detectable	Tubificidae, Chironomidae
Ohio Water Service Madison	Shale, fishy odor	Tricoptera, Ephemeroptera, Plecoptera, Turbellaria, Hirudinea, Prosobranchia, Bryozoa, Tubificidae
Ashtabula	Fine grey-brown sand and silt and gravel. No odor detectable	Tubificidae, Sphaeridae, Amphipoda, Chironomidae, Ephemeroptera, Prosobranchia, Pulmonata, Hydra, Bryozoa
Conneaut	Rock bottom, no odor detectable	Amphipoda, Ephemeroptera, Tricoptera, Plecoptera, Chironomidae, Tubificidae, Prosobranchia, Pulmonata, Turbellaria, Bryozoa

* Sediments sampled April 1968

** Physical nature of substrate poor for benthic fauna habitat

List of Abbreviations for Data Compilation

Abbreviations are used in this report for tabulated data according to the following list:

Units

mg/l - milligrams per liter
µmhos/cm - micromhos per centimeter

Chemistry

Ag - silver in mg/l
Alk - alkalinity in mg/l $CaCO_3$
Ar - arsenic in mg/l
Cd - cadmium in mg/l
Cl - chloride in mg/l
Cl Dem. - chlorine demand in mg/l
CN - cyanide in mg/l
Cr - chromium in mg/l
Cu - copper in mg/l
COD - chemical oxygen demand in mg/l
CON - conductivity in µmhos/cm at 25°C
DO - dissolved oxygen in mg/l
Fe - iron in mg/l
Hard - hardness in mg/l as $CaCO_3$
Mn - manganese in mg/l
NH_3-N - ammonia nitrogen in mg/l
NO_3-N - nitrate nitrogen in mg/l
Org-N - organic nitrogen in mg/l
pH - hydrogen ion concentration
SiO_2 - silica in mg/l
SO_4^2 - sulfate in mg/l
SP - soluble phosphorus in mg/l
TP - total phosphorus in mg/l
T - temperature in degrees Centigrade
TDS - total dissolved solids in mg/l
TB - turbidity in mg/l SiO_2
TO - threshold odor

Biology

Am - Amphipoda in organisms per m^2
Is - Isopoda in organisms per m^2
Pr - Prosobranchia in organisms per m^2
Pul - Pulmonata in organisms per m^2
Hir - Hirudinea in organisms per m^2
Ol - Oligochaeta in organisms per m^2
Ne - Nematoda in organisms per m^2
Tur - Turbellaria in organisms per m^2
Un - Unionidae in organisms per m^2

Sph - Sphaeriidae in organisms per m^2
Ch - Chironomidae in organisms per m^2
Eph - Ephemeroptera in organisms per m^2
Tri - Tricoptera in organisms per m^2
Chloro - Chlorophyll in mg/m^3
Ses - Seston in mg/m^3
Blue-green, green, flagellates, and diatoms given in number of organisms per ml.
PC - plankton count
x - qualitative only

Microbiology

Fec. Coli. - fecal coliform per 100 ml
T. Coli. - total coliform per 100 ml
SPC - standard plate count per milliliter

TABLE 4

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. C
1-2-69	0.2	9	262	14.0	97	1.4	8.0	93		114					
1-3-69	0.2	8	270	14.1	98	1.6	7.9	95		116					
1-6-69	0.3	15	395	14.2	99	1.4	8.0	120		173					24
1-7-69	0.3	20	384	14.3	99	1.6	8.0	117		168					1,75
1-8-69	0.5	50	378	13.6	95	1.7	8.0	112		166	44	23	2.20	0.03	2,40
1-9-69	0.0	30	333	13.8	95	1.7	8.0	105		141					1,750
1-10-69	0.0	9	282	14.3	99	1.4	8.0	96		121					142
1-13-69	0.2	5	268	14.1	98	1.3	7.9	95		118					8
1-14-69	0.2	5	278	14.2	99	1.0	7.9	97		122					9
1-15-69	0.5	6	265	14.5	101	0.8	7.9	95		117	22	15	0.30	0.01	2
1-16-69	0.5	4	266	14.7	103	0.7	7.9	95		121					4
1-17-69	0.6	5	272	14.9	104	0.7	8.0	94		120					8
1-20-69	1.0	6	290	13.5	95	1.2	7.9	95		126					6
1-21-69	1.0	6	288	14.6	103	1.3	7.9	95		126					2
1-22-69	1.0	10	310	13.5	95	1.3	7.9	100		138	32	19	0.55	0.01	33
1-23-69	1.0	20	356	12.9	91	1.2	7.9	105		156					16
1-24-69	1.2	25	398	12.7	90	1.7	7.8	110		178					20
1-27-69	0.5	15	265	12.5	87	1.6	7.8	106		162					1,100
1-28-69	0.6	15	357	12.7	88	1.5	7.8	104		157					167
1-29-69	0.8	15	354	13.0	91	1.3	7.9	105		156	48	21	0.80	0.02	1,247
1-30-69	0.8	25	360	12.7	89	1.4	7.9	107		158					460
1-31-69	0.8	15	350	12.6	88	1.5	7.9	103		149					670
Jan. Avg.	0.5	14	321	13.7	95	1.3	7.9	101		141	36	19	0.96	0.02	276
Max.	1.0	50	398	14.9	104	1.7	8.0	120		178	48	23	2.20	0.03	2,400
Min.	0.0	4	262	12.5	87	0.7	7.8	93		114	22	15	0.30	0.01	2
2-3-69	0.5	320	284	10.9	76	1.7	7.9	81		140					1,750
2-4-69	0.3	320	334	11.7	81	1.8	7.9	85		144					3,870

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-5-69	0.3	360	362	12.8	89	1.5	7.8	88		142	31	24	3.60	0.04	780
2-6-69	0.3	20	314	12.7	89	1.3	7.9	96		140					277
2-7-69	0.3	4	253	12.6	88	1.1	7.8	81		105					122
2-10-69	0.3	3	240	12.8	89	0.5	7.9	81		101					47
2-11-69	0.3	4	235	12.9	90	0.8	7.9	82		105					13
2-13-69	0.3	35	290	13.0	90	1.1	7.9	90		132	30	22	0.70	0.00	550
2-14-69	0.3	15	273	13.2	93	1.3	7.9	85		115					8
2-17-69	0.6	6	282	13.1	92	0.8	7.8	87		117					8
2-18-69	0.8	5	290	12.9	90	1.2	7.9	89		120					6
2-19-69	0.6	5	288	12.5	88	1.3	7.9	89		120	22	22	0.25	0.01	3
2-20-69	1.0	4	286	12.8	91	1.3	7.9	87		118					4
2-21-69	1.0	4	294	12.9	92	1.3	7.9	89		123					2
2-24-69	1.0	6	288	12.8	91	1.9	7.9	89		121					27
2-25-69	0.8	5	294	12.9	92	1.2	7.9	89		119					43
2-26-69	1.1	10	298	12.7	89	1.6	7.9	94		135	28	24	0.75	0.01	167
2-27-69	1.0	9	275	12.8	91	1.5	7.9	89		116					268
2-28-69	0.8	4	245	12.8	90	1.6	7.8	85		111					242
Feb. Avg.	0.6	60	285	12.7	89	1.3	7.9	87		122	28	23	1.33	0.02	431
Max.	1.1	360	362	13.2	93	1.9	7.9	96		144	31	24	3.60	0.04	3,870
Min.	0.3	3	235	10.9	76	0.5	7.8	81		101	22	22	0.25	0.00	2
3-3-69	0.8	15	294	14.3	98	1.4	8.1	92		126					780
3-4-69	1.0	5	276	14.2	99	0.8	8.0	87		123					460
3-5-69	1.0	5	262	13.6	95	0.5	8.1	83		112	19	20	0.20	0.01	51
3-6-69	1.2	5	270	13.3	94	0.9	8.1	85		117					6
3-7-69	0.8	7	264	13.6	95	0.8	8.0	83		114					2
3-10-69	2.2	25	304	13.0	94	1.0	8.0	95		134					1,202
3-11-69	1.0	25	223	13.3	93	0.8	7.9	83		105					3

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
3-12-69	0.6	10	254	13.7	95	0.6	8.0	85		111	22	19	0.30	0.02	17
3-13-69	0.4	4	244	13.3	96	0.9	7.9	83		107					4
3-14-69	1.0	3	244	13.4	94	1.4	7.9	83		107					5
3-17-69	1.4	9	320	15.2	107	1.1	8.4	96		138					6
3-18-69	1.6	4	255	13.8	98	0.8	8.0	87		110					2
3-19-69	2.4	4	287	14.6	105	0.7	8.5	94		128	26	18	0.32	0.01	0
3-20-69	2.8	5	278	14.2	104	0.5	8.3	88		120					0
3-21-69	3.2	40	278	14.0	104	0.8	8.2	87		120					5
3-24-69	4.3	10	284	12.8	98	0.6	8.5	92		124					16
3-25-69	4.1	50	276	12.0	91	0.6	8.2	90		120					3
3-26-69	4.2	45	298	11.8	90	0.6	8.2	97		133	29	24	2.40	0.02	9
3-27-69	3.5	30	270	12.3	91	0.5	8.1	90		118					9
3-28-69	3.5	15	274	12.1	90	0.7	8.0	92		120					0
Mar. Avg.	2.1	16	273	13.4	97	0.8	8.1	89		119	24	20	0.74	0.02	129
Max.	4.3	50	320	15.2	107	1.4	8.5	97		138	29	24	2.40	0.02	1,202
Min.	0.4	3	223	11.8	90	0.5	7.9	83		105	19	18	0.20	0.01	0
4-1-69	2.3	10	240	13.1	95	0.7	8.1	87		108					2
4-2-69	2.8	15	299	13.0	95	0.7	8.0	95		132	21	20	0.81	0.02	0
4-3-69	3.2	15	410	12.6	93	0.6	8.3	120		190					23
4-4-69	4.0	10	484	12.8	96	1.0	8.5	130		214					19
4-7-69	4.8	10	290	12.9	100	0.7	8.1	90		128					5
4-8-69	5.0	8	288	12.8	100	0.6	8.1	90		124					0
4-9-69	5.4	10	284	12.6	100	0.5	8.1	90		124	20	24	0.50	0.02	0
4-10-69	6.2	8	266	12.5	100	1.0	8.2	88		119					2
4-11-69	6.0	8	256	12.4	99	0.9	8.1	86		117					5
4-14-69	8.0	7	358	11.1	94	1.3	8.2	103		158					0
4-15-69	8.8	6	368	10.4	90	1.1	8.1	105		162					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-16-69	9.1	5	370	10.4	90	1.0	8.3	107		167	45	23	0.20	0.01	0
4-17-69	9.0	6	329	11.0	95	0.9	8.3	95		142					0
4-18-69	10.0	9	322	11.2	99	0.4	8.3	98		148					0
4-21-69	9.3	70	346	9.5	82	0.8	7.9	103		154					47
4-22-69	9.0	60	288	9.7	83	0.8	7.9	91		124					12
4-23-69	9.5	95	504	8.4	73	1.1	8.0	126		238	87	25	0.90	0.02	1,200
4-24-69	8.3	30	318	9.6	81	1.3	7.8	97		136					268
4-25-69	9.0	15	343	9.9	85	1.1	7.9	101		156					33
4-28-69	11.1	6	320	10.4	95	0.5	8.0	97		144					4
4-29-69	11.0	10	322	10.4	94	0.5	8.0	97		144					6
4-30-69	12.0	15	391	9.4	89	0.9	7.9	107		180	50	22	0.90	0.02	19
Apr. Avg.	7.4	19	336	11.2	92	0.8	8.1	100		150	45	23	0.73	0.02	75
Max.	12.0	95	504	13.1	100	1.3	8.5	130		238	87	25	0.90	0.02	1,200
Min.	2.3	5	240	8.4	73	0.4	7.8	86		108	20	20	0.20	0.01	0
5-1-69	12.0	10	388	9.6	89	1.2	8.1	107		178					54
5-2-69	12.0	10	363	10.6	98	0.7	8.2	104		164					4
5-5-69	14.0	10	370	10.7	103	0.4	8.4	106		172					10
5-6-69	14.3	15	340	11.3	110	0.5	8.5	103		160					8
5-7-69	14.7	7	314	11.2	110	0.6	8.5	96		142	33	19	0.44	0.02	13
5-8-69	15.0	6	292	10.6	104	0.5	8.5	90		131					42
5-9-69	15.0	6	303	9.5	94	0.6	8.3	93		137					21
5-12-69	13.2	15	288	8.7	83	1.1	8.1	91		125					84
5-13-69	13.0	10	294	8.9	84	0.6	8.1	91		126					82
5-14-69	13.0	6	282	9.3	87	0.6	8.1	90		122	24	20	0.45	0.00	4
5-15-69	14.0	6	306	10.0	96	0.6	8.6	96		139					4
5-16-69	14.2	7	310	9.7	95	0.4	8.4	96		138					0
5-19-69	14.8	7	298	10.0	97	0.5	8.5	97		144					2

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-20-69	15.0	10	348	10.0	98	0.4	8.6	104		164					33
5-21-69	15.0	10	344	10.0	98	0.4	8.5	104		160	42	19	0.41	0.01	23
5-22-69	14.8	6	420	8.7	85	0.6	8.6	119		200					240
5-26-69	15.0	5	359	8.8	86	0.5	8.5	108		170					26
5-27-69	15.0	6	332	8.9	87	0.6	8.5	100		150					252
5-28-69	15.2	15	320	9.4	94	0.8	8.4	99		145	33	20	0.67	0.01	19
5-29-69	16.2	6	320	9.4	95	0.7	8.5	99		146					10
May Avg.	14.3	9	330	10.0	95	0.6	8.4	100		151	33	20	0.50	0.01	47
Max.	16.2	15	420	11.3	110	1.2	8.6	119		200	42	20	0.67	0.02	252
Min.	12.0	5	282	8.7	83	0.4	8.1	90		122	25	19	0.41	0.00	0
6-2-69	18.5	6	298	8.3	88	0.8	8.4	97		144					5
6-3-69	17.8	5	302	8.0	84	0.6	8.4	98		146					2
6-4-69	17.2	7	343	7.6	79	0.5	8.5	107		162	38	20	0.70	0.10	4
6-5-69	17.0	6	308	7.8	80	0.8	8.4	100		152					2
6-6-69	17.5	8	310	7.9	82	0.6	8.5	106		155					12
6-9-69	17.2	20	318	7.5	78	0.7	8.5	100		144					2
6-10-69	17.3	6	310	7.8	81	0.5	8.4	96		136					12
6-11-69	17.8	6	302	8.0	84	0.4	8.3	95		136	32	18	0.31	0.10	11
6-12-69	18.0	6	292	7.9	83	0.5	8.3	95		135					0
6-13-69	18.5	6	288	7.8	83	0.4	8.3	93		131					0
6-16-69	17.2	15	310	7.8	81	0.5	8.3	101		152					13
6-17-69	17.5	15	298	7.7	80	1.4	8.3	98		140					58
6-18-69	18.2	7	294	7.5	79	0.9	8.4	96		137	31	19	0.24	0.01	1
6-19-69	18.0	7	290	7.4	78	1.1	8.4	97		134					2
6-20-69	18.3	10	288	7.4	78	0.9	8.3	96		132					0
6-23-69	18.0	25	298	6.7	70	0.8	8.0	96		136					2
6-24-69	18.3	20	362	6.6	70	0.6	8.1	109		164					22
6-25-69	18.2	15	225	6.4	67	0.6	8.2	103		151	20	20	1.00	0.0	9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-26-69	18.7	20	296	7.3	78	0.5	8.3	95		133					13
6-27-69	19.8	10	300	7.1	77	0.6	8.3	97		138					6
6-30-69	21.0	15	336	7.0	78	0.7	8.1	103		148					8
June Avg.	18.0	11	303	7.5	79	0.7	8.3	99		143	30	19	0.56	0.007	13
Max.	21.0	25	362	8.3	88	1.4	8.5	109		164	38	20	1.00	0.010	120
Min.	16.9	5	225	6.4	67	0.4	8.0	93		131	20	18	0.24	0	0
7-1-69	21.0	15	336	7.0	78	0.7	8.1	103		148					8
7-2-69	22.0	8	340	6.8	77	1.2	8.1	104		152	40	20	0.47	0.01	13
7-3-69	22.0	9	338	6.7	76	1.0	8.1	104		151					0
7-7-69	22.0	30	320	5.7	64	1.2	7.8	101		144					22
7-8-69	21.0	30	293	6.3	70	0.9	7.7	95		132					5
7-9-69	20.7	20	290	6.3	69	0.8	7.8	94		128	22	17	1.00	0.01	0
7-10-69	21.0	25	292	6.3	70	1.0	7.8	94		130		18			2
7-11-69	21.0	20	294	6.1	68	1.2	7.8	92		131					77
7-14-69	21.5	10	296	4.9	55	0.7	7.8	93		129					13
7-15-69	21.8	15	303	4.6	52	0.5	7.8	96		137					23
7-16-69	22.0	10	318	3.8	43	0.4	7.8	100		143	34	18	0.42	0.01	33
7-17-69	22.5	10	302	4.0	46	0.3	7.6	101		138					15
7-18-69	22.8	10	300	4.1	47	0.3	7.4	97		136					6
7-22-69	24.3	40	321	4.7	55	0.4	7.7	100		145					12
7-23-69	25.0	15	319	6.2	74	0.4	7.8	100		145	35	19	0.30	0.01	26
7-24-69	25.0	9	312	6.3	75	0.3	7.5	96		138					8
7-25-69	25.5	9	302	6.6	79	0.3	7.4	95		134					2
7-28-69	24.8	8	320	6.8	81	0.3	8.3	100		144					4
7-29-69	24.6	7	322	6.6	78	0.4	8.2	100		145					5
7-30-69	24.6	7	322	6.8	80	0.3	8.3	101		145	37	18	0.25	0.01	5
7-31-69	24.4	6	320	7.0	82	0.4	8.3	100		144					4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
July Avg.	22.8	15	312	5.9	68	0.6	7.9	98		140	34	18	0.488	0.01	13
Max.	25.5	40	340	7.0	82	1.2	8.3	104		152	40	20	1.000	0.015	77
Min.	20.7	6	290	3.8	43	0.3	7.4	92		128	22	17	0.250	0.01	0
8-1-69						0.3	8.6	100		144					2
8-4-69	24.5	6	311	8.2	97	0.6	8.5	104		152					
8-5-69	24.5	6	335	7.4	87	0.5	8.6	107		150					3
8-6-69	24.8	7	302	6.9	82	0.7	8.4	96		134	33	19	0.40	0.01	12
8-7-69	25.0	5	300	6.0	71	1.2	8.4	97		134					0
8-8-69	25.0	6	285	6.7	80	1.1	8.6	95		128					4
8-11-69	24.0	5	285	7.2	84	0.8	8.5	92		129					2
8-12-69	24.0	6	310	7.2	84	1.1	8.6	95		137					0
8-13-69	24.0	8	298	7.3	85	1.0	8.5	93		130	35	18	0.30	0.01	7
8-14-69	24.3	9	300	6.2	73	0.9	8.6	94		135					9
8-15-69	24.5	8	290	7.7	91	0.4	8.7	92		128					6
8-18-69	24.8	9	258	7.9	94	0.3	8.6	84		113					9
8-19-69	25.0	8	260	8.0	95	0.2	8.6	84		110					2
8-20-69	25.0	15	260	7.9	94	0.3	8.6	82		111	20	16	1.00	0.02	6
8-21-69	24.0	15	262	7.8	91	0.3	8.6	83		110					5
8-22-69	24.0	10	275	7.9	92	0.3	8.7	85		117					6
8-25-69	24.0	15	253	6.0	70	0.3	8.3	75		106					5
8-26-69	24.3	15	255	5.8	68	0.8	8.5	73		106					4
8-27-69	24.1	15	252	5.6	66	1.0	8.8	71		106	30	19	0.80	0.02	5
8-28-69	24.0	15	252	5.4	63	0.5	8.6	74		106					2
8-29-69	24.0	10	250	4.9	57	1.1	8.1	74		106					0
Aug. Avg.	24.4	10	280	6.9	81	0.7	8.5	88		123	30	18	0.60	0.02	4
Max.	25.0	15	335	8.2	97	1.2	8.8	107		152	35	19	1.00	0.02	12
Min.	24.0	6	250	4.9	57	0.2	8.1	71		106	20	16	0.30	0.01	0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-2-69	24.4	6	250	6.1	72	1.0	8.1	74		105					0
9-4-69	24.2	15	252	6.0	70	0.5	8.2	73		106	28	18	0.50	0.02	0
9-5-69	24.4	15	244	6.2	73	0.5	8.2	70		101					0
9-8-69	24.0	8	245	6.2	72	0.4	8.2	71		102					13
9-9-69	23.2	15	246	6.3	73	1.0	8.2	71		102					6
9-10-69	22.0	15	270	6.4	72	1.2	8.1	75		112	32	20	0.80	0.02	12
9-11-69	21.8	15	266	6.5	73	1.3	8.0	76		111					4
9-12-69	21.8	10	264	6.5	73	1.0	7.9	76		110					2
9-15-69	21.3	10	246	6.2	69	0.9	7.9	76		108					0
9-16-69	21.8	9	246	6.2	70	1.0	8.0	77		108					0
9-17-69	21.5	9	248	6.4	72	0.5	8.0	78		107	30	18	0.70	0.02	26
9-18-69	20.4	35	250	6.4	70	0.3	8.1	78		109					12
9-19-69	20.0	25	255	6.3	69	0.3	8.0	78		113					5
9-22-69	19.2	15	262	6.4	69	0.2	8.2	82		111					12
9-23-69	19.4	10	260	6.6	71	0.1	8.1	81		111					20
9-24-69	19.8	10	258	6.6	72	0.1	8.0	81		109	24	16	0.70	0.01	5
9-25-69	19.0	15	262	6.7	72	0.2	7.9	81		111					2
9-29-69	17.5	9	265	8.0	83	0.3	8.2	84		116					19
9-30-69	17.4	9	264	8.1	84	0.7	8.2	84		116					4
Sep. Avg.	21.1	13	255	6.5	73	0.6	8.1	77		109	29	18	0.67	0.02	7
Max.	24.4	35	270	8.1	84	1.3	8.2	84		116	32	20	0.80	0.02	26
Min.	17.4	6	244	6.0	69	0.1	7.9	70		101	24	16	0.50	0.01	0
10-1-69	17.2	7	268	8.3	86	0.8	8.1	84		118	27	18	0.80	0.01	0
10-2-69	17.8	9	262	7.8	82	0.8	8.1	83		114					6
10-6-69	17.8	9				0.7	8.4	83		112					0
10-7-69	17.8	7				0.4	8.3	82		110					2
10-8-69	17.8	6	260	8.4	88	0.3	8.4	81		110	25	17	0.42	0.01	19

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
10-9-69	17.5	7				0.2	8.3	82		110					15
10-10-69	17.2	7				0.2	8.3	82		110					8
10-13-69	17.0	20	259	8.0	82	0.4	8.1	81		111					23
10-14-69	17.0	15				0.3	8.2	80		110					15
10-15-69	16.3	15	261	8.4	85	0.2	8.3	81		111		17	1.00		0
10-16-69	15.8	15				0.1	8.3	83		114					5
10-17-69	15.3	15		8.6	86	0.4	8.3	82		113					2
10-20-69	13.6	9				0.2	8.3	84		108					2
10-21-69	13.0	9				0.2	8.2	84		109					5
10-22-69	12.8	30		9.5	90	0.2	8.2	86		112		16	2.20		32
10-23-69	12.2	25		10.0	93	0.0	8.3	86		111					23
10-24-69	11.3	10		9.8	90	0.1	8.3	86		111					2
10-27-69	10.9	10		10.5	95	0.2	8.3	85		110					5
10-28-69	10.0	9				0.3	8.3	86		112					2
10-29-69	10.0	7		10.6	94	0.3	8.4	88		116		15			6
10-30-69	10.0	15				0.3	8.1	87		113			1.00		19
10-31-69	10.0	10				0.3	8.2	86		111					12
Oct. Avg.	14.5	12	262	9.1	89	0.3	8.3	84		112	25	17	1.08	0.01	9
Max.	17.8	30	268	10.6	95	0.8	8.4	88		118	25	18	2.20	0.01	32
Min.	10.0	6	259	7.8	82	0.0	8.1	80		108	25	15	0.42	0.01	0
11-3-69	10.0	7	253	10.7	94	0.5	8.2	87		111					2
11-4-69	9.8	6	266	10.5	92	0.5	8.2	88		115			0.50		2
11-5-69	9.3	10	264	10.6	92	0.5	8.3	87		115		16			6
11-6-69	9.1	10				0.8	8.3	88		116					4
11-7-69	9.0	8				0.6	8.4	90		123					9
11-10-69	8.6	6				0.3	8.1	83		105					2
11-11-69	8.6	5				0.4	8.2	83		108					6

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T.Mn	T. Coli.
11-12-69	8.6	5				0.3	8.3	82		105		16	0.22		2
11-13-69	8.1	7				0.3	8.3	83		106					0
11-14-69	7.5	5				0.4	8.3	83		109					5
11-17-69	6.0	5		12.0	96	0.2	8.3	83		116					6
11-18-69	5.6	4				0.3	8.4	84		120					6
11-19-69	5.8	6				0.4	8.1	84		116		22			0
11-20-69	5.3	10				0.2	8.1	84		118					4
11-21-69	4.3	8				0.1	8.3	84		111					2
11-24-69	4.3	4				0.7	8.2	83		107					0
11-25-69	4.2	3				0.3	8.2	83		107					0
11-26-69	4.2	3				0.2	8.1	83		108		24			0
11-27-69	4.2	2				0.1	8.2	83		109					0
11-28-69	3.9	35				0.4	8.2	94		136					38
Nov. Avg.	6.8	7	261	11.0	94	0.4	8.2	85		113		20	0.36		5
Max.	10.0	35	266	12.0	96	0.8	8.4	94		136		24	0.50		38
Min.	3.9	2	253	10.5	92	0.1	8.1	82		105		16	0.22		0
12-1-69	2.5	40				1.6	8.3	95		142					1247
12-2-69	2.2	25	281			1.2	8.3	87		122					1320
12-3-69	2.0	20	275			1.6	8.1	90		128		24			277
12-4-69	1.4	75	405			2.1	8.2	102		158					350
12-5-69	1.1	7	271			0.9	8.2	87		116					43
12-8-69	1.1	15	260			1.0	8.3	84		108					23
12-9-69	1.1	9	246			0.6	8.2	80		103					16
12-10-69	1.1	6	255			0.2	8.2	83		108		17			6
12-11-69	1.1	7	242			0.2	8.2	83		108					5
12-12-69	1.1	7	238			0.3	8.2	81		105					6

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
12-15-69	0.9	15	334			0.5	8.2	90		131					122
12-16-69	0.6	25	367			1.1	8.2	96		144					142
12-17-69	0.3	15	261			0.7	8.2	85		116		19			16
12-18-69	0.3	15	263			0.8	8.2	84		114					33
12-19-69	0.3	8	243			0.6	8.2	83		111					9
12-22-69	0.0	5	271			0.7	8.3	85		113					2
12-23-69	0.3	6	276			0.7	8.3	95		136					125
12-24-69	0.3	3	281			0.5	8.2	85		116		20			2
12-25-69	0.3	3				0.5	8.3	87		121					13
12-26-69	0.3	3				0.4	8.3	87		121					13
12-29-69	0.3	2	312			0.5	8.3	95		135					2
12-30-69	0.3	2	310			0.2	8.3	91		128					2
12-31-69	0.3	2	277			0.2	8.3	89		122		22			0
Dec. Avg.	0.8	14	283			0.7	8.2	88		122		20			164
Max.	2.5	75	405			2.1	8.3	102		158		24			1320
Min.	0.0	2	238			0.2	8.1	80		103		17			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
1-1-69	2.0	150	490	11.7	84	10.6	7.2	92	245	228		35			
1-2-69	1.0	50	290	13.5	96	9.7	7.6	77	145	200					4,000
1-3-69	1.0	55	300	13.5	96	14.5	7.2	113	150	196	132		.15		56,500
1-4-69	1.1	60	320	13.9	99	12.0	7.4	104	160	190					35,500
1-5-69	1.1	25	270	14.8	104	15.3	7.4	90	135	192					48,500
1-6-69	1.1	25	270	14.6	103	12.1	7.4	102	135	154					12,100
1-7-69	1.6	25	300	14.9	105	7.3	7.2	96	150	206					3,600
1-8-69	1.1	25	270	16.9	119	4.3	7.2	82	135	152					200
1-9-69	1.1	25	220	17.1	120	4.0	7.2	85	110	170					0
1-10-69	1.1	25	200	16.2	113	3.9	7.2	94	100	150	25		.04		300
1-11-69	1.1	25	220	16.4	115	3.4	7.2	100	110	152		22			100
1-12-69	1.2	25	180	16.1	113	4.0	7.5	78	90	164					0
1-13-69	1.1	25	250	16.8	118	4.1	7.1	100	125	132					0
1-14-69	1.1	25	220	15.7	109	2.7	7.2	104	110	132					0
1-15-69	1.6	25	220	16.0	112	2.3	7.8	104	110						0
1-16-69	1.6	25	190	16.6	118	3.0	8.2	100	95	172	91		.02		0
1-17-69	1.6	25	200	16.4	116	2.7	8.4	99	100	160					100
1-18-69	1.6	25	240	16.1	114	3.4	8.2	105	120	150					1,200
1-19-69	1.6	25	230	15.3	109	4.4	8.2	105	115	144					200
1-20-69	1.6	25	450	16.4	116	7.3	7.4	129	225	244					31,000
1-21-69	1.6	45	480	12.7	91	11.2	7.6	115	240	230					21,500
1-22-69	1.6	25	370	13.5	97	9.0	7.8	111	185	180					7,500
1-23-69	1.6	25	210	14.5	103	10.5	8.2	97	105	160					3,000
1-24-69	1.6	25	250	17.8	124	10.9	8.4	98	125	190	31		.04		10,500
1-25-69	2.2	25	220	17.2	123	3.3	8.4	97	110	174					1,000
1-26-69	2.2	25	230	16.9	122	3.6	8.4	95	115	160					1,300
1-27-69	2.2	25	260	14.8	108	5.4	8.4	105	130	144					1,000
1-28-69	1.6	25	270	14.3	102	6.1	8.4	70	135	150					5,900
1-29-69	1.6	25	330	15.1	107	8.0	7.8	79	165	160		32			550

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
1-30-69	1.6	25	250	14.3	103	5.4	7.8	99	125	190					2,950
1-31-69	2.2	25	220	15.1	109	4.4	8.2	95	110	170	29		.05		2,300
Jan. Avg.	1.5	32	271	15.3	108	6.7	7.7	97	135	173	62	27	.06		8,003
Max.	2.2	150	490	17.8	124	15.3	8.4	129	245	244	132	35	.15		56,500
Min.	1.0	25	180	11.7	84	2.3	7.1	70	90	132	29	22	.02		0
2-1-69	2.2	60	230	15.3	110	9.1	8.2	95	115	152					5,633
2-2-69	1.6	35	220	14.7	104	4.8	8.2	88	110	144		24			7,233
2-3-69	2.2	95	300	13.7	98	7.0	7.8	89	150	148					7,966
2-4-69	1.1	60	260	14.7	104	4.4	7.8	94	130	132					8,533
2-5-69	1.1	120	280	13.4	95	5.4	7.8	95	140	204					4,766
2-6-69	1.1	70	230	13.9	99	6.9	7.6	76	115	178					750
2-7-69	1.1	80	250	14.1	100	7.2	8.0	105	120	180	91		0.18		2,600
2-8-69	1.1	55	320	13.9	99	7.4	8.0	104	160	188					1,050
2-9-69	1.1	90	260	13.0	92	9.8	7.6	102	130	184					1,750
2-10-69	1.1	60	430	12.8	90	7.3	7.6	119	215	246		28			18,266
2-11-69	1.1	85	400	13.1	93	7.1	7.6	102	200	218					14,000
2-12-69	1.1	180	260	12.8	90	8.1	7.6	74	130	224					1,150
2-13-69	1.1	180	210	13.2	93	8.7	7.2	73	105	150					3,300
2-14-69	1.1	200	230	13.2	93	9.2	7.2	88	115	158	125		0.43		2,500
2-15-69	1.1	160	280	13.0	92	10.5	7.4	92	140	152					6,850
2-16-69	1.1	100	230	13.7	97	7.9	7.6	85	115	156					8,100
2-17-69	1.6	100	320	13.7	97	7.3	7.6	83	160	142					1,000
2-18-69	1.1	120	290	13.3	94	4.3	7.6	82	145	154					750
2-19-69	1.6	90	260	13.2	93	7.7	7.6	86	130	150		28			200
2-20-69	1.6	60	230	13.2	93	5.6	7.6	71	115	116					1,000
2-21-69	1.6	60	230	12.7	90	6.6	7.6	92	115	174	58		0.16		700
2-22-69	2.2	30	180	13.3	97	6.5	7.6	93	90	172					650
2-23-69	2.2	25	210	13.5	98	5.9	7.6	92	105	160					100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-24-69	2.2	60	280	13.3	97	5.6	7.6	92	140	162					100
2-25-69	2.2	60	270	12.7	93	6.5	7.6	93	135	130					1,000
2-26-69	2.2	40	240	13.0	95	8.2	7.6	83	120	138					0
2-27-69	2.2	40	240	13.3	97	5.3	7.6	84	120	144	47		0.11		100
2-28-69	2.2	30	200	13.6	99	5.3	7.6	87	100	132					100
Feb. Avg.	1.5	84	262	13.4	96	7.0	7.7	90	131	164	80	27	0.22		3,576
Max.	2.2	200	430	15.3	110	10.5	8.2	119	215	246	125	28	0.43		18,266
Min.	1.1	25	180	12.7	90	4.3	7.2	71	90	116	47	24	0.11		0
3-1-69	2.2	25	250	13.5	97	6.2	7.6	93	125	136	24				100
3-2-69	2.2	40	250	13.9	101	5.4	7.8	104	125	164					600
3-3-69	2.2	25	250	13.1	95	6.0	7.6	92	125	138					2,250
3-4-69	2.2	25	240	13.9	101	6.5	7.6	88	120	130					1,100
3-5-69	2.7	25	220	15.6	115	4.1	7.8	72	110	134					100
3-6-69	2.8	30	210	16.0	118	4.1	8.4	80	105	146					100
3-7-69	2.8	35	250	18.7	140	4.2	8.4	86	125	126					0
3-8-69	3.3	25	270	18.6	139	5.6	8.4	102	135	166	32		0.31		4,900
3-9-69	3.3	25	220	19.5	146	5.3	8.4	83	110	152					11,170
3-10-69	3.3	35	240	19.0	142	5.0	8.4	84	120	120					3,830
3-11-69	1.1	60	240	15.2	109	3.9	8.4	86	120	124					0
3-12-69	1.6	40	230	19.2	137	4.4	8.4	85	115	130		24			650
3-13-69	3.3	25	230	19.0	142	4.2	8.4	89	115	-	45		0.30		100
3-14-69	3.3	25	210	18.8	140	5.6	8.4	86	105	128					1,550
3-15-69	3.2	25	220	18.0	134	3.8	8.4	-	110	81					1,850
3-16-69	2.2	40	200	17.3	125	5.1	8.4	85	100	140					300
3-17-69	1.6	65	250	16.4	117	4.7	8.4	86	125	130					1,100
3-18-69	2.2	60	210	15.8	114	4.3	8.4	95	105	126					0
3-19-69	3.3	45	260	17.1	128	3.6	8.4	85	130	148	32		0.34		100
3-20-69	3.3	25	230	17.5	131	3.5	8.4	90	115	124					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-21-69	3.3	200	230	13.7	102	3.7	8.4	90	115	148					300
3-22-69	3.3	180	245	13.1	99	5.3	8.4	88	122	132					100
3-23-69	5.0	80	270	14.5	113	4.3	8.4	95	135	124		22			12,500
3-24-69	5.0	85	260	14.6	113	5.0	8.4	102	130	120					500
3-25-69	5.0	100	240	14.0	109	3.2	8.4	95	120	136					10,400
3-26-69	5.0	150	250	14.2	111	5.3	8.4	90	125	90					200
3-27-69	5.0	200	220	12.8	101	3.4	8.4	90	110	120					100
3-28-69	4.5	120	220	12.1	95	3.9	8.4	90	110	119	32		0.18		400
3-29-69	4.5	110	240	13.7	105	4.5	8.4	89	120	124					600
3-30-69	4.4	200	270	13.2	102	4.7	7.8	102	135	184					1,050
3-31-69	4.4	170	310	14.2	109	3.0	7.8	110	155	182					900
Mar. Avg.	3.2	74	240	15.6	117	4.6	8.2	90	120	134	33	23	0.28		1,723
Max.	5.0	200	310	19.5	146	6.5	8.4	110	155	184	45	24	0.34		12,500
Min.	1.1	25	200	12.1	95	3.0	7.6	72	100	81	24	22	0.18		0
4-1-69	4.4	75	290	13.4	104	2.4	8.4	93	145	160					2,250
4-2-69	4.4	100	270	12.8	99	5.3	8.4	99	135	140					100
4-3-69	4.2	110	290	12.5	96	2.5	8.4	94	145	156	106		0.27		5,500
4-4-69	4.3	70	330	13.1	101	-	8.4	105	165	180					44,700
4-5-69	6.0	65	330	12.9	104	2.5	8.4	103	165	164					1,250
4-6-69	5.5	100	300	12.6	100	5.3	8.0	105	150	152					5,200
4-7-69	8.3	120	490	12.9	110	3.3	8.2	145	245	194					700
4-8-69	8.0	65	410	11.8	100	4.7	8.2	110	205	-					800
4-9-69	8.0	60	320	11.6	99	4.3	8.4	102	160	160					400
4-10-69	10.5	65	410	11.1	100	3.9	8.4	122	205	228					1,500
4-11-69	10.0	70	280	11.1	99	3.9	8.4	94	140	134	46		0.52		400
4-12-69	9.7	70	280	11.3	99	3.7	8.4	99	140	148					3,900
4-13-69	10.0	45	370	11.7	103	3.7	8.0	108	185	198					1,000

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-14-69	10.0	30	310	11.4	101	2.3	8.2	94	155	156					700
4-15-69	10.0	25	275	11.0	97	4.2	-	92	137	146					100
4-16-69	10.0	-	265	12.0	106	-	8.4	94	132	140					1,300
4-17-69	10.0	25	280	11.7	103	3.7	8.0	87	140	128		24			800
4-18-69	10.0	25	270	11.5	102	3.2	8.4	90	135	139					5,000
4-19-69	8.8	25	240	11.5	99	3.5	7.6	103	120	134	15		0.21		10,000
4-20-69	9.0	200	290	10.5	91	6.2	8.0	97	145	-					9,300
4-21-69	9.0	75	270	11.0	95	4.8	8.0	94	135	140					700
4-22-69	9.0	210	270	10.7	92	2.6	8.0	88	135	130					500
4-23-69	9.0	90	260	10.9	94	-	8.0	93	130	126					500
4-24-69	8.0	270	300	11.0	93	4.8	8.0	104	150	152					1,800
4-25-69	10.0	120	380	10.3	91	5.7	7.6	115	190	208	106		0.52		1,100
4-26-69	10.0	100	340	9.5	84	9.0	7.8	120	170	204					5,000
4-27-69	11.6	80	380	10.0	92	11.6	7.8	119	190	204					300
4-28-69	13.3	70	400	10.1	97	8.6	8.0	124	200	208					700
4-29-69	12.0	130	350	9.6	90	8.4	7.8	110	175	180		22			37,000
4-30-69	12.0	240	370	9.0	84	8.5	7.8	128	185	216					400
Apr. Avg.	8.9	94	315	11.3	98	5.0	8.1	104	160	165	68	23	0.38		4,367
Max.	13.5	270	490	13.4	106	11.6	8.4	145	245	228	106	24	0.52		44,700
Min.	4.2	25	240	9.0	84	2.3	7.6	87	120	126	15	22	0.21		100
5-1-69	12.0	75	390	9.4	87	8.5	7.8	118	195	226		23			1,200
5-2-69	13.0	55	380	-	-	9.2	-	120	190	220	141		0.52		4,100
5-3-69	14.0	30	370	9.2	89	8.1	8.0	-	185	186					900
5-4-69	15.0	60	410	9.6	95	8.2	7.8	117	205	218					3,500
5-5-69	15.0	-	350	10.5	104	7.3	8.0	82	175	90					2,400
5-6-69	16.0	60	180	10.5	106	6.0	8.4	94	140	150					-
5-7-69	16.0	-	260	11.8	119	3.7	8.4	98	130	140					3,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-8-69	16.0	35	260	10.4	105	3.5	8.4	90	130	144					1,400
5-9-69	16.0	25	250	10.6	107	-	-	91	125	-	67	21	0.38		1,200
5-10-69	16.0	110	310	9.0	91	3.6	8.4	100	155	164					1,400
5-11-69	13.3	230	360	8.6	82	7.9	7.8	120	180	218					1,700
5-12-69	13.3	160	460	9.1	87	5.1	8.0	145	230	252					2,300
5-13-69	12.5	70	420	9.8	92	5.1	8.0	120	210	113					2,200
5-14-69	15.0	40	270	10.4	103	3.9	8.4	97	135	130					300
5-15-69	15.0	30	270	10.7	106	-	-	142	135	-					1,500
5-16-69	15.0	35	320	10.6	105	4.2	8.4	107	160	170	96	-	0.07		-
5-17-69	15.0	35	320	9.6	95	5.1	-	106	160	168					3,300
5-18-69	15.5	85	320	9.7	97	6.2	8.2	110	160	184					34,000
5-19-69	15.5	65	290	9.9	99	3.6	8.2	104	145	162					2,200
5-20-69	15.8	35	280	8.8	89	3.6	8.4	97	140	146					-
5-21-69	15.6	40	290	8.8	88	5.1	8.4	102	245	156		24			1,100
5-22-69	15.8	140	330	8.2	82	14.7	8.0	100	165	186					16,000
5-23-69	15.2	250	350	7.5	75	12.2	-	111	175	180	67		0.07		18,000
5-24-69	15.2	80	340	7.5	75	10.8	-	106	170	174					5,100
5-25-69	15.0	60	310	7.4	73	9.6	7.8	104	155	179					2,600
5-26-69	15.5	80	320	9.5	95	-	8.4	100	160	156					3,600
5-27-69	16.0	100	350	8.0	81	5.8	8.2	116	175	190					29,000
5-28-69	16.0	30	300	9.1	92	-	8.4	101	158	150					2,000
5-29-69	17.0	40	310	10.6	109	4.7	8.4	95	155	162		23			2,100
5-30-69	19.0	50	310	10.2	109	5.0	8.4	106	155	164	38		0.52		900
5-31-69	18.0	40	300	8.7	91	7.1	8.4	101	150	150					1,000
May Avg.	15.1	74	322	9.4	93	6.6	8.2	107	166	170	82	23	0.31		5,013
Max.	19.0	250	460	11.8	119	14.7	8.4	145	245	252	141	24	0.52		34,000
Min.	10.9	25	180	7.4	73	3.5	7.8	82	125	90	38	21	0.07		300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-1-69	18.8	55	320	8.2	87	6.6	8.4	102	160	166					900
6-2-69	18.8	65	300	7.2	77	4.6	8.4	82	150	178		24			1,000
6-3-69	18.0	50	290	7.3	77	4.6	8.2	100	145	146					2,200
6-4-69	16.0	30	275	7.5	76	6.2	8.2	90	137	148					1,200
6-5-69	17.0	35	280	7.9	81	-	8.0	90	140	148					900
6-6-69	17.2	30	270	8.1	84	4.8	8.2	90	135	126					18,000
6-7-69	18.0	30	280	8.0	84	5.2	8.4	92	140	126					1,700
6-8-69	18.3	25	270	7.6	80	6.7	8.0	100	135	126	23		0.35		2,200
6-9-69	16.6	65	260	7.8	80	4.7	8.0	102	130	148					2,800
6-10-69	18.0	45	290	7.9	83	5.1	8.2	84	145	134					30,000
6-11-69	18.0	30	280	-	-	5.0	-	82	140	124		26			2,300
6-12-69	18.0	35	270	6.1	64	-	7.8	90	136	122					3,200
6-13-69	19.0	25	290	6.9	74	6.5	8.0	75	145	126					6,300
6-14-69	19.4	35	300	7.2	78	6.7	-	-	149	-					44,000
6-15-69	17.7	90	290	7.8	81	6.4	7.8	84	145	136	16		0.53		52,000
6-16-69	17.2	120	280	8.1	84	7.5	7.8	89	140	130					4,400
6-17-69	18.0	40	360	-	-	5.7	8.0	103	180	154					7,200
6-18-69	18.0	30	280	7.6	80	6.1	8.0	98	140	126					900
6-19-69	18.0	25	370	7.8	82	5.7	8.0	102	185	162					6,800
6-20-69	19.0	25	280	8.6	92	4.8	8.0	97	280	122					900
6-21-69	18.0	70	300	7.8	82	6.1	7.8	98	150	124					4,900
6-22-69	18.8	40	280	8.0	85	5.6	8.0	109	140	156	80		0.29		6,000
6-23-69	18.3	55	290	7.8	82	5.1	8.0	105	145	138					9,200
6-24-69	18.5	30	270	7.8	83	5.0	-	92	135	118					600
6-25-69	18.5	25	300	7.8	83	6.3	8.4	93	150	128					4,100
6-26-69	20.0	30	320	7.3	79	6.2	8.0	95	160	140					61,000
6-27-69	20.0	25	340	6.5	71	6.2	8.0	95	170	132					41,000
6-28-69	22.0	25	310	6.6	74	5.0	8.0	72	155	128					1,100
6-29-69	22.2	70	280	8.0	91	4.9	8.2	102	140	124	29		0.07		1,700
6-30-69	21.1	40	280	7.4	82	4.9	8.0	80	140	120					1,600

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
June Avg.	18.5	43	294	7.6	80	5.6	8.1	93	151	136	37	25	0.31		10,125
Max.	22.2	120	370	8.6	92	7.5	8.4	109	280	178	80	26	0.53		61,000
Min.	16.0	25	260	6.1	64	4.4	7.8	72	130	118	16	24	0.07		600
7-1-69	22.0	25	290	7.0	79			74	145	122					
7-2-69	22.0	25	290	6.7	76	5.6	8.2	93	145	118					200
7-3-69	22.0	25	290	5.4	61	4.9	8.0	90		130					5,000
7-4-69	22.3	25	295	6.5	74	5.5	8.0	86	148	126					6,700
7-5-69	23.0	95	410	6.4	73	1.4	8.0	104	205	166					5,300
7-6-69	22.0	130	270	6.7	76	5.0	7.8	97	135	120	5		0.65		28,000
7-7-69	22.0	200	240	5.5	62	8.2	7.6	87	120	132					70,000
7-8-69	20.0	90	290	7.1	77	10.3	8.0	86	185	122					19,000
7-9-69	20.0	120	260	6.6	72	16.8	7.8	80	130			22			1,900
7-10-69	21.0	95	270	5.6	62	16.1	7.8	84	135	126					2,600
7-11-69	22.0	50	295	4.6	52	7.5		87	148	126					3,200
7-12-69	24.0	75	285	6.1	71	7.5	7.8	88	143	122					
7-13-69	23.0	60	290	7.1	82	4.7	7.8	102	145	126	15		0.53		1,300
7-14-69	23.0	55	290	5.7	65	5.3	7.6	97	145	128					900
7-15-69	24.0	55	235			8.8	7.6	90	118	122					2,000
7-16-69	23.0	35	285	4.0	46	3.1	7.4	99	143	126					2,100
7-17-69	24.0	25	310	3.8	44	3.1	7.8	90	250	122					900
7-18-69	24.0	80	290	6.7	78		7.8	97	145	120					1,100
7-19-69	24.0	25	280	8.5	99	8.0	8.4	96	140	114					1,100
7-20-69	25.0	25	310	5.6	67	6.2	7.8	105	155	124	9		0.15		7,900
7-21-69	25.0	25	290	6.6	78	7.6	8.0	104	145	120					1,600
7-22-69	25.0	25	280	5.2	62	5.9	7.8	102	140	118					4,200
7-23-69	25.0	25	290	5.1	61	6.5	7.8	105	145	144					4,500
7-24-69	24.0	25	280	4.5	53	6.5		94	140	112					14,000
7-25-69	24.0	25	280	5.8	68	4.2	8.0	97	140	116					4,200

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-26-69	25.0	40	290	6.8	81	5.4	8.0	100	145	112					3,900
7-27-69	25.5	25	280	6.7	80	10.1	8.0	100	140	122	17		0.11		7,100
7-28-69	25.5	25	280	6.4	77	4.3	8.0	102	140	110					3,500
7-29-69	24.4	25	270	6.6	78	6.0	8.0	98	135	128					3,900
7-30-69	24.4	25	280	6.5	76	4.9	8.2	102	140	112		24			1,700
7-31-69	24.0	25	340	5.5	64	5.2	8.0	96	170	132					5,100
July Avg.	23.4	52	288	6.0	70	6.7	7.9	95	149	124	12	23	0.36		7,341
Max.	25.0	200	410	8.5	99	16.8	8.4	105	250	166	17	24	0.65		70,000
Min.	22.0	25	235	3.8	44	1.4	7.4	74	118	110	15	22	0.11		200
8-1-69	24.0	25	280	5.4	63	6.7	8.0	96	140	116					4,300
8-2-69	24.0	25	280	5.3	62	9.2	8.0	96	140	116					3,100
8-3-69	24.0	25	280	5.2	61	6.3	8.0	94	140	118					3,700
8-4-69	24.0	25	280	5.2	61	6.3	8.0	94	140	118	15		0.16		2,200
8-5-69	24.0	25	270	7.8	91	5.3	8.0	91	135	98					200
8-6-69	24.0	25	280	6.8	79	7.0	8.0	85	140	108					1,300
8-7-69	24.0	25	290	3.0	35	6.4	7.4	92	145	114					4,200
8-8-69	25.0	25	290	4.7	56	12.1	7.8	89	145	112					2,600
8-9-69	24.0	25	280	5.0	58	6.7	7.8	92	140	110					900
8-10-69	24.0	25	270	5.4	63	7.7	7.8	88	135	114					2,600
8-11-69	23.0	25	270	5.7	65	6.1	7.8	93	135		16		0.09		800
8-12-69	24.0	25	300	8.7	102	7.8	8.0	99	150	122					700
8-13-69	24.0	25	290	5.8	68	10.5	7.8	90	145	126					
8-14-69	24.0	25	250	7.1	83	5.6	7.7	94	125	120					31,000
8-15-69	24.0	25	290	5.6	65	7.3	7.8	92	145	124					1,400
8-16-69	24.0	25	290	3.2	37	8.1	7.8	94	145	120					
8-18-69	24.0	70	300	6.8	79	5.1	7.6	96	150	122	32		0.15		32,000
8-19-69	24.0	50	290	6.7	78	6.2	8.0	98	145	124					1,600

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-20-69	24.0	100	280	7.0	82	6.0	7.8	98	140	128					2,100
8-21-69	22.0	30	270	7.4	84	7.7	7.7	96	135	124					1,600
8-22-69	23.0	50	290	6.4	73	6.1	7.7	97	145	126					14,000
8-23-69	23.0	25	280	6.8	78	6.1	8.0	94	140	126					50,000
8-24-69	24.0	35				5.6	7.7	93		126					
8-25-69	24.0	35	270	6.6	77	5.9	7.7	93	135	126	16		0.13		3,100
8-26-69	25.0	90	250	8.4	100	10.4	7.5	77	125	108					2,300
8-27-69	24.0	100	260	5.1	60	12.5	7.3	80	130	104					5,100
8-28-69	24.0	30	280	3.3	39	9.1	7.3	83	140	120					4,700
8-29-69	24.0	40	270	4.2	49	11.9	7.5	83	135	110		20			24,000
8-30-69	24.0	25	260	2.9	34		7.6	77	130	96					22,000
8-31-69	24.0	25				13.9	7.4	79		98					
Aug. Avg.	23.9	37	278	5.8	28	7.8	7.8	91	139	116	20	20	0.13		8,519
Max.	25.0	100	300	8.7	102	13.9	8.0	99	150	128	32	20	0.16		50,000
Min.	22.0	25	250	2.9	34	5.1	7.3	77	125	96	15	20	0.09		200
9-1-69		25	270	2.4		11.2	7.4	80	135	94	22		0.11		3,000
9-2-69	24.0	35	270	2.7	32	11.3	7.5	84	135	110					900
9-3-69	24.0	30	280	2.5	29	11.1	7.5	85	140	112					36,000
9-4-69	24.0	25	245	3.9	46	10.7	7.6	79	122	106					300
9-5-69	24.0	25	250	3.9	46	10.5	7.5	78	125	102					1,000
9-6-69	24.0	30	260	4.0	47	11.3	7.5	83	130	104					6,400
9-7-69	24.0	30	260	4.2	49	10.1	7.5	84	130	110					2,100
9-8-69	24.0	30	260	4.7	55	7.6	7.3	84	130	104	41		0.10		1,800
9-9-69	22.0	35	230	5.5	62	6.7	7.5	86	115	106		22			3,500
9-10-69	20.0	65	240	6.3	69	7.1	7.5	81	120	88					14,000
9-11-69		35	240	7.1		8.0	7.8	85	120	104					5,000
9-12-69	20.0	35	230	7.4	81	5.7	7.5	84	115	108					2,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
9-13-69	20.0	40	230	7.5	82	6.0	7.7	82	115	106					1,500
9-14-69	20.0	35	230	7.8	85	7.2	7.5	82	115	102					2,800
9-15-69	20.0	30	240	6.4	70	6.5	7.7	86	120	104	24		0.19		4,100
9-16-69	20.0	30	240	7.2	78	5.3	7.7	85	120	110					3,300
9-17-69	20.0	25	240	6.9	75	7.2	7.6	86		102					19,000
9-18-69	18.0	100	230	7.0	73	5.1	8.0	81	115	106					9,700
9-19-69	18.0	40	230	6.8	71	4.0	7.5	86	120	104		20			8,900
9-20-69	18.0	45	230	7.2	76	6.1	7.7	85	115	102					38,000
9-21-69	18.0	30	260	6.7	70	7.2	7.5	90	130	110					72,000
9-22-69	18.0	30	230	6.7	70	5.3	7.5	86	115	110	46		0.19		5,700
9-23-69	18.0	30	250	6.5	68	5.6	7.5	87	125	112					29,000
9-24-69	18.0	100	240	7.5	79	5.6	6.6	86	120	102					35,000
9-25-69	16.0	130		7.1	72	4.5	7.3	86	105	100					4,700
9-26-69	18.0	50	240	6.7	70	5.1	7.5	85	120	112					6,900
9-27-69	17.0	35	250	7.9	81	6.6	7.5	87	125	110					5,300
9-28-69		35				6.6	7.3	86		90					
9-29-69	16.0	30	240	8.5	86	4.0	7.7	86	120	116	43		0.18		2,300
9-30-69	16.0	30	240	8.6	87	4.9	7.7	88	120	116		24			69,000
Sept. Avg.	20.0	42	245	6.1	65	7.1	7.5	84	122	105	35	22	0.15		13,568
Max.	24.0	130	280	8.6	85	11.3	8.0	90	140	116	46	24	0.19		72,000
Min.	16.0	25	230	2.4	14	4.0	6.6	78	105	88	22	20	0.10		300
10-1-69	16.0	25	245	8.8	89	4.7	8.0	84	122	102		19			5,700
10-2-69	16.0	25	240	8.2	83	4.3	7.9	91	120	112					12,300
10-3-69	17.0	25	240	8.2	84	4.1	7.7	90	120	112					5,600
10-4-69	18.0	30	240	8.3	87	6.3	7.9	90	120	104					6,700
10-5-69	17.0	25	220	8.2	84	6.9	7.9	87	110	116					14,100
10-6-69	17.0	25	240	8.3	85	4.3	7.7	88	120	118	46		0.14		4,800

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
10-7-69	17.0	25	250	8.2	84	6.2	7.9	90	125	116					2,200
10-8-69	16.0	25	240	8.5	86	4.8	8.2	83	120	108					3,900
10-9-69	16.0	25	230	8.5	86	4.7	8.4	86	115	108					2,900
10-10-69	16.0	25	250	8.6	87	4.8	7.9	86	125	114					4,300
10-11-69	16.0	25	250	8.5	86	4.8	8.0	86	125	112					3,000
19-12-69	16.0	40	250	8.3	84	6.4	7.9	87	125	116					8,700
10-13-69	16.0	40	250	8.3	84	5.6	7.7	87	125	118	20	22	0.12		13,200
10-14-69	16.0	55	250	8.0	81	5.2	7.9	86	125	112					25,000
10-15-69	14.0	40	240	8.4	81	5.6	7.8	87	120	120					2,000
10-16-69	14.0	30	230	9.2	89	3.7	8.4	89	115	116					39,000
10-17-69	13.0	35	230	9.0	86	6.2	7.9	88	115	114					6,900
10-18-69	11.0	40	270	9.5	87	3.6	7.9	90	135	122					49,000
10-19-69	11.0	30	250	9.5	87	7.6	8.1	91	125	124	24	20	0.10		6,400
10-20-69	11.0	40	210	9.3	85	3.2	7.9	88	105	120					7,100
10-21-69	11.0	35	240	9.5	87	5.6	8.1	88	120	120					28,000
10-22-69	10.0	150	210	9.9	87	5.7	8.0	87	150	116					8,000
10-23-69		180	220	11.2		5.1	8.0	90	110	112					2,700
10-24-69	9.0	130	260	11.3	98	5.6	7.7	94	130	114					2,200
10-25-69	9.0	70	270	11.3	98	4.7	7.9	96	135	120					5,700
10-26-69	8.0	70	240	10.7	90	5.7	7.9	93	120	122					6,400
10-27-69	8.0	100	250	10.8	91	4.7	7.9	96	125	126	33		0.33		6,900
10-28-69	8.0	100	260	11.1	94	5.4	7.7	91	130	128		20			900
10-29-69	8.0	55	245	12.0	101	3.9	8.2	98	142	140					430
10-30-69	8.0	45	250	11.2	94	5.8	8.4	134	125	134					5,400
10-31-69	8.0	40	250	11.1	94	4.2	8.1	96	125	134					6,300
Oct. Avg.	12.9	52	243	9.6	88	5.1	8.0	91	123	118	31	20	0.17		9,539
Max.	18.0	180	270	12.0	101	7.6	8.4	134	150	140	46	22	0.33		49,000
Min.	8.0	25	210	8.0	81	3.2	7.7	83	105	102	20	19	0.10		430

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
11-1-69	8.0	40	250	11.1	94	4.9	8.1	98	125	126					7,100
11-2-69	9.0	35	260	11.2	97	5.0	8.1	99	130	126		22			7,800
11-3-69	9.0	30	260	11.2	97	4.6	8.1	97	130	128	29		0.08		7,900
11-4-69	8.0	25	270	11.3	95	6.2	8.1	96	135	122					1,900
11-5-69	7.0	30	230	11.3	93	5.2	7.8	92	115	126					10,000
11-6-69	8.0	85	210	12.3	104	3.4	8.0	95	105	136					1,700
11-7-69	8.0	45	250	12.0	101	3.8	7.6	99	125	132					700
11-8-69	8.0	50	250	11.7	99	4.8	8.1	98	125	130					2,300
11-9-69	8.0	50	250	11.6	98	5.1	7.9	97	125	128					2,000
11-10-69	8.0	25	220	11.1	94	4.3	7.8	93	110	132	21	22	0.08		200
11-11-69	8.0	25	230	11.0	93	5.5	7.9	93	115	126					1,000
11-12-69	8.0	25	230	11.1	94	3.1	7.9	95	115	132					500
11-13-69	7.0	35	230	11.2	92	4.0	7.9	92	115	136					500
11-14-69	7.0	25	210	11.6	96	2.7	7.9	96	105	134					200
11-15-69	7.0	35	220	12.0	99	5.1	8.1	96	110	128					200
11-16-69	5.0	30	250	12.0	94	5.5	7.9	96	125	132	16		0.12		23,000
11-17-69	4.0	25	210	12.5	96	4.1	8.4	97	105	130					800
11-18-69	5.0	25	250	12.1	95	5.2	7.3	98	121	140		24			1,000
11-19-69	6.0	80	250	12.3	99	5.3	7.3	92	123	134					60,000
11-20-69	4.0	50	240	12.3	94	3.3	7.3	97	120	134					1,700
11-21-69	3.0	50	220	12.9	96	3.6	7.5	96	110	136					900
11-22-69	2.0	60	380	12.4	90	13.9	7.5	98	190	142					67,000
11-23-69	2.0	60	360	12.6	91	15.4	7.7	124	180	196					247,000
11-24-69	2.0	35	350	12.9	94	12.5	7.9	109	175	192					70,000
11-25-69	2.0	50	390	12.1	88	15.5	7.4	97	195	198					90,000
11-26-69	2.0	35	300	12.9	94	14.2	7.9	109	150	162					2,100
11-27-69	2.0	25	260	13.6	99	10.6	7.9	107	130	152					2,100
11-28-69	2.0	50	220	13.4	97	4.1	7.9	97	110	170					9,000
11-29-69	2.0	50	240	13.3	97	12.9	7.9	99	120	150					3,400
11-30-69	2.0	40	210	13.6	99	2.6	7.7	91	105	160	15	26	0.14		200

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	5.4	41	257	12.1	95	6.5	7.8	98	128	142	20	24	0.11		20,740
Max.	9.0	85	390	13.6	104	15.5	8.4	124	195	198	29	26	0.14		247,000
Min.	2.0	25	210	11.0	88	2.6	7.3	91	105	122	15	22	0.08		200
12-1-69	1.0	80	240	13.3	94	3.5	7.9	93	120	130					800
12-2-69	0.0	150	340	13.3	91	5.8	7.7	116	170	192					800
12-3-69	0.0	170	280	13.9	95	9.9	7.8	112	140	172					9,000
12-4-69	0.0	130	330	14.2	98	7.1	7.7	118	165	185					8,000
12-5-69	0.0	110	310	13.8	95	7.1	7.5	135	155	200					4,900
12-6-69	0.0	100	290	14.1	97	12.5	7.5	108	145	184	34	28	0.53		3,400
12-7-69	0.0	90	300	14.3	98	7.0	7.5	105	150	170					3,000
12-8-69	0.0	80	290	14.2	98	4.6	7.7	106	145	162					400
12-9-69	0.0	60	300	14.1	97	6.0	7.7	94	150	166					4,000
12-10-69	0.0	50	290	14.5	100	5.8	7.7	106	145	178					1,700
12-11-69	0.0	100	270	15.3	105	4.9	7.8	102	135	170					6,000
12-12-69	0.0	80	260	14.6	100	4.3	7.0	105	130	182					6,000
12-13-69	0.0	60	310	13.9	95	5.2	7.7	110	155	184	58	28	0.43		1,000
12-14-69	0.0	50	330	14.2	98	5.3	7.7	107	165	170					1,800
12-15-69	0.0	80	270	14.4	99	5.9	7.8	105	135	194					1,100
12-16-69	0.0	100	280	14.1	97	3.6	7.5	103	140	148					1,900
12-17-69	0.0	40	301	14.4	99	5.1	7.7	122	150	224					5,300
12-18-69	0.0	60	300	15.5	106	5.0	7.8	123	150	210					4,700
12-19-69	0.0	50	200	14.7	101	2.4	7.9	97	100	205					2,900
12-20-69	0.0	50	210	15.2	104	2.8	7.5	94	105	128	49	22	0.17		1,800
12-21-69	0.0	35	250	14.8	102	2.5	7.9	98	125	144					2,600
12-22-69	0.0	30	190	15.3	105	3.4	7.9	103	95	204					1,100
12-23-69	0.0	35	190	15.7	108	2.4	7.9	96	95	174					900
12-24-69	0.0	25	200	15.2	104	4.0	7.9	108	100	164					1,300
12-25-69	0.0	25	200	15.5	106	3.4	7.9	104	100	168					2,900

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
12-26-69	0.0	25	200	15.4	106	1.2	8.1	97	100	146					1,700
12-27-69	0.0	25	230	15.5	106	3.2	8.1	98	115	146	29	20	0.09		900
12-28-69	0.0	25	280	15.6	107	5.9	7.9	108	140	160					2,100
12-29-69	0.0	25	250	16.3	112	3.0	7.9	107	125	170					1,100
12-30-69	0.0	30	230	16.7	115	3.1	7.9	97	115	146					700
12-31-69	0.0	25	230	16.5	113	3.5	8.1	104	115	166					100
Dec. Avg.	0.0	64	263	14.8	101	4.8	7.8	106	131	172	43	25	0.31		2,706
Max.	1.0	170	340	16.7	115	12.5	8.1	135	170	224	58	28	0.53		9,000
Min.	0.0	25	190	13.3	91	1.2	7.0	93	95	128	29	20	0.09		100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
1-1-69	1.5	5	-	-	-	2.1	8.3	94	-	-					-
1-2-69	2.0	25	276	14.4	103	1.7	8.3	93	226	124					240
1-3-69	2.0	4	265	14.5	104	1.2	8.3	92	218	120					-
1-4-69	2.0	5	-	-	-	1.6	8.2	92	-	-					-
1-5-69	2.0	5	-	-	-	1.5	8.2	95	-	-					-
1-6-69	2.0	5	276	14.6	105	1.2	8.3	95	226	128					150
1-7-69	2.0	10	286	14.5	104	1.4	8.2	95	235	132	14				240
1-8-69	2.0	10	297	14.5	104	1.7	8.2	96	244	130					43
1-9-69	1.8	7	307	14.5	104	1.7	8.2	94	252	128					93
1-10-69	3.0	9	318	14.5	106	1.7	8.3	94	261	-					75
1-11-69	3.0	8	-	-	-	1.6	8.1	91	-	.					-
1-12-69	2.0	5	-	-	-	1.6	8.2	91	-	-					-
1-13-69	2.0	4	318	14.7	105	1.1	8.3	97	261	122					43
1-14-69	2.0	7	297	14.7	105	1.0	8.3	96	244	136	15				23
1-15-69	2.0	5	276	14.7	105	1.3	8.2	95	226	134					20
1-16-69	2.0	5	297	14.7	105	1.6	8.3	96	244	128					9
1-17-69	3.0	5	297	15.0	110	1.5	8.2	96	244	128					4
1-18-69	3.0	4	-	-	-	1.6	8.2	98	-	-					-
1-19-69	3.0	5	-	-	-	1.5	8.2	97	-	-					-
1-20-69	3.0	4	318	14.2	105	1.7	8.2	95	261	120					15
1-21-69	3.0	4	307	13.0	96	1.6	8.2	97	252	128					9
1-22-69	3.0	3	307	14.1	104	1.6	8.2	97	252	122					23
1-23-69	3.0	15	-	-	-	1.6	8.1	95	-	126					460
1-24-69	4.0	20	-	-	-	1.9	8.2	95	-	130					43
1-25-69	3.0	10	-	-	-	1.9	8.1	99	-	-					-
1-26-69	2.0	10	-	-	-	1.8	8.3	100	-	-					-
1-27-69	2.0	6	318	14.8	104	1.4	8.3	98	261	134					240
1-28-69	2.0	6	314	14.6	105	1.4	8.3	98	258	134	16				460
1-29-69	3.0	4	297	14.5	106	1.4	8.3 8.4	99	244	132					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BI101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-30-69	3.0	6	318	14.5	106	1.1	8.3	100	261	132					240
1-31-69	3.0	3	318	14.6	107	1.4	8.3	97	261	134					93
Jan. Avg.	2.5	7	295	14.5	105	1.5	8.2	95	247	129	15				125
Max.	4.0	25	318	15.0	110	2.1	8.4	100	261	136	16				460
Min.	1.5	3	265	13.0	96	1.0	8.1	91	218	120	14				4
2-1-69	3.0	5	-	-	-	2.2	8.3	97	-	-					
2-2-69	3.0	5	-	-	-	2.4	8.3	96	-	-					
2-3-69	2.0	6	318	14.7	105	2.4	8.4	94	261	140					1,100
2-4-69	2.0	75	360	14.1	101	3.5	8.2	94	296	170	53				240
2-5-69	2.0	20	286	14.3	103	2.8	8.3	92	235	120					240
2-6-69	2.0	50	318	14.5	104	5.1	8.2	95	261	138					460
2-7-69	2.0	80	318	12.9	93	4.5	8.0	97	261	140					240
2-8-69	3.0	65	-	-	-	6.0	8.0	88	-	-					-
2-9-69	3.0	35	-	-	-	5.4	8.0	87	-	-					-
2-10-69	2.0	40	307	13.7	98	4.3	8.0	97	252	138					460
2-11-69	2.0	40	329	13.8	99	4.6	8.1	96	270	136					1,100
2-12-69	2.0	30	-	-	-	4.3	8.1	96	-	-					240
2-13-69	2.0	65	327	13.4	96	3.8	8.0	92	270	140					1,100
2-14-69	2.0	50	307	13.5	97	3.6	8.1	92	252	132					150
2-15-69	3.0	35	-	-	-	4.3	7.9	94	-	-					-
2-16-69	3.0	30	-	-	-	4.2	8.0	92	-	-					-
2-17-69	2.0	40	307	13.2	95	3.8	8.0	92	244	126					1,100
2-18-69	2.0	30	307	13.1	94	3.5	8.0	93	252	124	16				93
2-19-69	2.0	35	297	13.6	98	3.7	8.0	91	244	122					93
2-20-69	2.0	30	297	13.2	95	3.5	8.0	91	244	122					240
2-21-69	2.0	40	-	-	-	3.4	7.9	88	-	122					93
2-22-69	2.0	40	-	-	-	3.6	8.0	95	-	-					-
2-23-69	3.0	35	-	-	-	3.7	8.1	96	-	-					-

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BI101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
2-24-69	3.0	35	297	13.0	95	3.5	8.0	93	244	122					75
2-25-69	2.5	25	297	13.0	95	3.4	8.0	90	244	120	15				93
2-26-69	4.0	20	-	-	-	3.6	8.0	90	120	-					150
2-27-69	2.0	20	307	13.1	94	2.8	8.0	89	252	118					93
2-28-69	2.0	20	265	13.1	94	3.2	8.1	90	217	118					75
Feb. Avg.	2.4	36	308	13.5	97	3.8	8.1	93	246	130	28				372
Max.	4.0	80	360	14.7	105	6.0	8.4	97	296	170	53				1,100
Min.	2.0	5	265	12.9	93	2.2	7.9	87	120	118	15				75
3-1-69	2.0	20	-	-	-	3.1	8.2	89	-	-					-
3-2-69	2.0	20	-	-	-	3.3	8.2	89	-	-					-
3-3-69	2.0	25	350	12.9	93	3.5	8.1	91	287	150					240
3-4-69	2.0	20	318	13.5	97	3.2	8.1	90	261	134	22				23
3-5-69	3.0	20	318	13.9	102	3.0	8.2	88	261	128					93
3-6-69	3.0	15	318	13.9	102	2.5	8.2	89	261	124					9
3-7-69	2.5	15	297	14.9	108	2.5	8.3	88	244	124					93
3-8-69	3.0	20	-	-	-	2.4	8.2	89	-	-					-
3-9-69	3.0	20	-	-	-	2.5	8.1	88	-	-					-
3-10-69	2.0	15	286	14.5	104	2.3	8.3	88	235	116					15
3-11-69	2.0	15	286	14.1	101	2.0	8.3	85	235	122					-
3-12-69	2.0	15	318	14.5	104	2.0	8.4	89	261	140					7
3-13-69	2.0	15	286	14.9	106	2.1	8.5	86	235	116					15
3-14-69	2.0	15	265	15.4	110	2.0	8.5	85	218	120					23
3-15-69	3.0	15	-	-	-	2.1	8.5	86	-	-					-
3-16-69	3.0	10	-	-	-	2.0	8.4	85	-	-					-
3-17-69	2.0	10	276	14.8	105	1.8	8.7	87	226	118					9
3-18-69	3.0	5	297	14.8	108	1.6	8.5	90	244	116	11				4
3-19-69	3.0	3	297	14.7	107	1.7	8.5	92	244	114					9
3-20-69	4.0	3	297	14.8	110	1.4	8.6	92	244	120					36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
3-21-69	4.0	4	286	14.3	107	1.5	8.6	91	235	118					36
3-22-69	4.0	6	-	-	-	1.7	8.6	90	-	-					-
3-23-69	4.0	6	-	-	-	1.9	8.6	89	-	-					-
3-24-69	4.0	15	297	14.0	105	1.9	8.7	90	244	120					0
3-25-69	5.0	40	297	13.6	105	1.9	8.6	91	244	124	15				23
3-26-69	5.0	25	286	13.2	102	1.9	8.5	86	235	124					43
3-27-69	4.0	15	276	13.4	101	1.9	8.5	87	226	116					0
3-28-69	4.0	15	265	13.4	101	1.6	8.7	86	217	112					23
3-29-69	5.0	25	-	-	-	1.8	8.5	89	-	-					-
3-30-69	5.0	15	-	-	-	2.0	8.4	90	-	-					-
3-31-69	4.0	20	265	13.1	99	1.8	8.5	92	217	116					93
Mar. Avg.	3.2	17	309	14.8	109	2.2	8.4	89	242	122	16				40
Max.	5.0	40	350	15.4	110	3.5	8.7	92	287	150	22				240
Min.	2.0	3	265	12.9	93	1.4	8.1	85	217	112	11				0
4-1-69	4.0	10	265	13.1	99	1.9	8.5	89	218	114	12				23
4-2-69	4.5	10	276	13.0	100	1.8	8.3	87	226	116					93
4-3-69	4.5	20	286	12.9	99	2.0	8.3	89	235	114					23
4-4-69	5.0	10	297	12.6	98	1.7	8.3	88	244	116					93
4-5-69	5.0	10	-	-	-	2.0	8.2	88	-	-					-
4-6-69	5.0	65	-	-	-	2.4	8.2	88	-	-					-
4-7-69	6.0	15	276	12.0	96	2.0	8.2	91	226	116					23
4-8-69	6.0	10	276	11.8	95	2.0	8.2	89	226	114	12				9
4-9-69	7.0	40	265	12.2	100	2.0	8.2	89	218	116					23
4-10-69	8.0	7	265	11.9	100	1.9	8.2	90	218	116					240
4-11-69	8.0	10	307	11.5	97	1.8	8.1	88	252	130					23
4-12-69	8.0	5	-	-	-	2.0	8.0	87	-	-					-
4-13-69	8.0	4	-	-	-	2.1	8.2	88	-	-					-

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
4-14-69	9.0	6	286	12.6	107	1.7	8.4	88	235	116					9
4-15-69	9.0	4	265	12.2	105	1.7	8.3	88	218	116	12				9
4-16-69	8.0	4	254	12.4.	104	1.4	8.2	87	209	112					23
4-17-69	9.0	4	254	12.1	104	1.3	8.2	87	209	116					9
4-18-69	10.0	240	265	11.7	104	1.9	8.2	92	218	118					23
4-19-69	10.0	1100	-	-	-	10.8	8.2	87	-	-					-
4-20-69	10.0	380	-	-	-	5.3	8.0	89	-	-					-
4-21-69	9.0	200	286	9.7	83	2.4	8.2	91	235	120					240
4-22-69	9.0	120	276	10.5	90	2.1	8.2	90	226	120	11				43
4-23-69	9.0	230	265	10.7	92	2.7	8.1	90	218	132					9
4-24-69	9.0	160	329	10.5	90	3.8	8.1	96	270	146					15
4-25-69	9.0	110	339	9.6	82	3.6	8.2	95	278	148					43
4-26-69	10.0	25	-	-	-	3.2	8.0	95	-	-					-
4-27-69	11.0	25	-	-	-	2.9	8.0	95	-	-					-
4-28-69	10.0	15	265	9.8	85	3.3	8.2	94	218	118					23
4-29-69	11.0	35	265	10.3	93	2.2	8.1	97	218	124					93
4-30-69	11.0	15	307	10.2	92	2.7	8.2	95	252	130					43
Apr. Avg.	8.1	96	280	11.5	96	2.6	8.2	90	230	121	12				51
Max.	11.0	1100	339	13.1	107	10.8	8.5	97	278	148	12				240
Min.	4.0	4	254	9.6	82	1.3	8.0	87	206	112	11				9
5-1-69	12.0	15	297	10.6	98	3.0	8.2	94	244	136					23
5-2-69	12.0	15	318	10.7	99	2.9	8.3	94	261	136					23
5-3-69	11.0	20	-	-	--	2.6	8.2	93	-	-					-
5-4-69	12.0	10	-	-	-	2.5	8.3	94	-	-					-
5-5-69	14.0	15	318	10.9	105	2.4	8.5	92	261	134					23
5-6-69	13.0	20	318	12.1	114	2.4	8.7	94	261	138					23
5-7-69	13.0	15	297	11.8	110	2.6	8.5	95	244	132					23
5-8-69	14.0	10	318	11.2	107	2.7	8.5	96	261	130					43

TABLE 4 (Continued

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
5-9-69	13.0	10	265	10.7	100	2.6	8.5	95	218	126					23
5-10-69	14.0	9	-	-	-	2.8	8.5	96	-	-					-
5-11-69	14.0	150	-	-	-	4.1	8.5	94	-	-					-
5-12-69	13.0	38	265	10.0	95	2.7	8.6	93	218	132					43
5-13-69	13.0	45	276	10.2	96	2.6	8.7	92	226	130	13				43
5-14-69	13.0	10	265	10.5	99	2.2	8.7	92	218	126					43
5-15-69	14.0	15	276	10.3	100	2.5	8.8	92	226	128					23
5-16-69	14.0	15	286	9.8	95	2.3	8.5	93	235	136					93
5-17-69	14.0	15	-	-	-	2.4	8.3	95	-	-					-
5-18-69	15.0	25	-	-	-	2.7	8.5	102	-	-					-
5-19-69	15.0	15	286	10.7	105	2.4	8.7	94	235	126					240
5-20-69	16.0	10	339	10.2	103	2.8	8.7	92	278	150	38				43
5-21-69	16.0	60	360	10.3	104	3.7	8.8	92	296	160					43
5-22-69	17.0	55	360	10.1	104	4.0	8.9	92	296	166					23
5-23-69	16.0	30	360	9.2	92	4.2	8.7	99	296	160					9
5-24-69	16.0	55	-	-	-	4.0	8.4	99	-	-					-
5-25-69	16.0	25	-	-	-	4.4	8.2	97	-	-					-
5-26-69	16.0	45	350	8.8	89	4.2	8.7	99	287	170					43
5-27-69	17.0	20	360	9.1	94	4.3	8.7	97	296	164	44				75
5-28-69	16.0	20	318	7.8	77	3.3	8.5	99	261	156					15
5-29-69	16.0	20	318	7.2	71	3.5	8.4	95	261	146					15
5-30-69	16.0	15	-	-	-	3.1	8.3	95	-	-					-
5-31-69	18.0	30	-	-	-	4.4	8.1	95	-	-					-
May Avg.	14.5	27	312	10.1	98	3.1	8.5	95	256	142	32				44
Max.	18.0	150	360	12.1	114	4.6	8.9	102	296	170	44				240
Min.	11.0	9	265	7.2	71	2.2	8.1	92	218	126	13				9
6-1-69	18.0	30	-	-	-	4.2	8.3	95	-	-					-
6-2-69	16.0	30	318	4.3	43	4.5	7.9	99	261	144					43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-3-69	16.0	30	297	4.9	49	3.8	7.9	97	244	142	19				93
6-4-69	16.0	30	286	6.6	65	3.2	8.1	94	235	130					23
6-5-69	16.0	15	286	6.2	62	2.7	8.4	94	235	134					43
6-6-69	17.0	15	286	8.0	82	2.8	8.4	93	235	134					93
6-7-69	16.0	20	-	-	-	2.8	8.2	93	-	-					-
6-8-69	17.0	25	-	-	-	3.7	8.1	93	-	-					-
6-9-69	17.0	80	297	7.6	78	3.8	8.1	95	244	136					93
6-10-69	18.0	20	297	7.6	80	3.4	8.1	95	244	136	19				9
6-11-69	17.0	20	297	6.4	65	3.0	8.0	95	244	138					9
6-12-69	18.0	20	276	6.6	69	2.9	8.0	93	226	130					4
6-13-69	17.0	15	276	7.1	72	2.5	8.0	93	226	128					4
6-14-69	17.0	25	-	-	-	2.6	8.0	98	-	-					-
6-15-69	17.0	75	-	-	-	3.1	8.2	99	-	-					-
6-16-69	17.0	65	277	7.8	79	3.2	8.1	96	226	130					9
6-17-69	17.0	15	286	8.2	85	3.0	8.1	95	235	134	19				23
6-18-69	17.0	10	286	7.5	76	3.1	8.1	95	235	130					9
6-19-69	17.0	10	276	7.6	78	2.6	8.2	95	226	130					9
6-20-69	18.0	15	276	7.6	80	2.6	8.1	96	226	128					4
6-21-69	18.0	90	-	-	-	2.7	8.1	95	-	-					-
6-22-69	18.0	25	-	-	-	2.8	8.1	96	-	-					-
6-23-69	18.0	45	297	7.9	82	2.5	8.1	97	244	132					150
6-24-69	18.0	15	286	8.6	90	2.6	8.3	94	235	134	16				23
6-25-69	18.0	15	276	8.5	90	2.2	8.3	95	226	132					9
6-26-69	19.0	10	286	8.5	90	2.3	8.3	95	235	130					9
6-27-69	19.0	8	297	7.8	83	2.3	8.2	96	244	130					9
6-28-69	20.0	7	-	-	-	2.5	8.1	95	-	-					-
6-29-69	21.0	10	-	-	-	2.1	8.3	96	-	-					-
6-30-69	20.0	6	286	7.3	80	2.5	8.1	96	235	128					9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
June Avg.	17.6	27	288	7.3	75	2.9	8.1	95	236	132	18				32
Max.	21.0	90	318	8.6	90	4.5	8.4	99	261	144	19				150
Min.	16.0	6	276	4.3	43	2.1	7.9	93	226	128	16				4
7-1-69	21.0	15	297	9.0	100	2.8	8.6	96	244	128	19				9
7-2-69	21.0	6	276	7.9	88	2.9	8.4	96	226	122					9
7-3-69	21.0	5	276	6.4	71	2.9	8.2	96	226	130					43
7-4-69	22.0	5				3.1	8.0	95							
7-5-69	21.0	7	265	6.4	71	2.7	8.2	96	218	134					
7-6-69	21.0	20				3.1	8.3	94							
7-7-69	21.0	210	265	6.4	71	4.7	8.0	90	218	122					460
7-8-69	20.0	380	265	6.8	74	6.2	8.0	95	218	126	14				1,100
7-9-69	21.0	260	254	6.7	74	4.2	8.3	85	209	114					1,100
7-10-69	21.0	90	265	6.1	68	4.0	7.9	86	218	120					460
7-11-69	21.0	65	265	4.5	50	3.4	7.8	92	218	118					93
7-12-69	21.0	20				3.5	7.9	94							
7-13-69	21.0	15				3.7	8.0	97							
7-14-69	23.0	10	286	7.5	86	2.9	8.3	95	235	130					21
7-15-69	23.0	15	276	5.4	62	2.7	7.9	95	226	124	15				93
7-16-69	23.0	10	276	4.3	49	3.5	7.8	96	226	126					43
7-17-69	22.0	8	276	2.8	32	3.7	7.6	98	226	126					15
7-18-69	22.0	8	276	2.1	24	3.3	7.6	98	226	126					15
7-19-69	23.0	10				3.6	7.5	93							
7-20-69	24.0	20				3.5	7.6	95							
7-21-69	25.0	10				4.0	7.9	92							
7-22-69	24.0	3	276	4.4	51	3.7	7.9	91	226	122	13				23
7-23-69	25.0	25	265	5.0	59	4.2	7.9	92	218	118					150
7-24-69	25.0	15	286	3.5	42	4.1	7.8	93	235	124					43
7-25-69	25.0	10	265	3.1	37	4.3	7.7	94	218	124					15
7-26-69	25.0	10				4.2	7.7	94							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
7-27-69	25.0	10				4.1	7.8	93							
7-28-69	23.5	10	244	1.2	14	3.4	7.6	97	200	116					9
7-29-69	21.5	10	254	0.2	2	5.2	7.5	100	209	122	11				43
7-30-69	23.0	10	276	2.5	29	4.3	7.8	95	226	122					23
7-31-69	23.0	8	265	1.1	13	4.3	7.6	95	218	124					43
July Avg.	22.8	42	270	4.7	53	3.7	7.9	94	222	123	14				181
Max.	25.0	380	297	9.0	100	6.2	8.6	100	244	134	19				1,100
Min.	20.0	3	244	0.2	2	2.7	7.5	85	200	114	11				9
8-1-69	22.0	15	276	0.2	2	5.0	7.6	102	226	128					43
8-2-69	22.0	15		1.7	19	5.1	7.5	102							
8-3-69	23.0	5		5.6	64	2.9	7.7	96							
8-4-69	24.0	5	276	3.5	41	3.0	8.2	90	226	126					15
8-5-69	24.0	3	276	2.6	30	2.9	7.7	91	226	124	15				9
8-6-69	24.0	4	265	1.6	19	3.3	7.6	93	218	126					9
8-7-69	22.5	6	286	0.2	2	4.5	7.4	100	235	126					0
8-8-69	21.0	6	276	0.4	4	5.5	7.4	98	226	124					0
8-9-69	21.0	4		0.1	1	5.0	7.3	102							
8-10-69	22.0	10		5.2	59	4.3	7.7	98							
8-11-69	23.0	4	254	6.1	70	2.3	8.1	92	209	118					9
8-12-69	24.0	5	244	5.6	65	2.5	8.3	90	200	120					9
8-13-69	23.5	8	254	6.4	74	2.7	7.9	92	209	120	12				9
8-14-69	24.0	8	265	3.6	42	3.2	7.7	92	218	122					0
8-15-69	23.0	8	265	2.4	28	4.0	7.7	94	218	124					23
8-16-69	23.0	10		2.0	23	3.4	7.6	96							
8-17-69	23.0	15		1.4	16	5.0	7.5	100							
8-18-69	23.0	15	265	0.2	2	5.9	7.6	102	218	126					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
8-19-69	22.0	15	276	0.2	2	5.6	7.6	99	226	130	11				23
8-20-69	24.0	160	276	7.8	91	3.1	8.8	91	226	122					23
8-21-69	23.0	25	276	7.1	82	2.9	8.6	92	226	126			0.27		0
8-22-69	23.0	8	265	8.5	98	2.5	8.7	93	218	122					9
8-23-69	24.0	5				2.8	8.6	92							
8-24-69	24.0	5				2.6	8.3	93							
8-25-69	24.0	5	276	4.6	54	2.5	8.3	93	226	124					0
8-26-69	25.0	5	265	7.9	94	2.9	8.7	91	218	124	16		0.20		4
8-27-69	25.0	10	254	7.3	87	3.4	8.6	91	209	122					0
8-28-69	24.5	6	244	6.5	77	3.1	8.4	87	200	116					4
8-29-69	24.0	8	265	5.7	67	3.2	8.3	90	218	120					9
8-30-69	25.0	8				3.8	8.2	92							
8-31-69	25.0	8				4.5	7.9	92							
Aug. Avg.	23.4	13	267	3.9	45	3.7	8.0	94	219	123	14		0.24		9
Max.	25.0	160	286	8.5	98	5.9	8.8	102	235	130	16		0.27		43
Min.	21.0	3	244	0.1	1	2.3	7.3	87	200	116	11		0.20		0
9-1-69	25.0	6				5.6	7.7	97							
9-2-69	24.0	10	276	4.0	46	4.2	7.9	95	226	124	15		0.10		43
9-3-69	24.0	20	265	4.7	54	3.5	7.9	93	218	124					23
9-4-69	24.0	10	265	6.2	72	3.3	8.1	90	218	122					240
9-5-69	24.5	15	265	6.1	71	3.4	8.0	88	218	1[illegible]					150
9-6-69	24.5	10				3.3	8.0	94							
9-7-69	24.5	5				3.1	8.1	96							
9-8-69	23.5	8	276	6.4	74	3.1	8.3	91	226						23
9-9-69	23.0	10	276	6.3	72	3.4	8.0	87	226		24		0.10		23
9-10-69	22.0	15	265	6.9	77	3.7	8.3	85	218	[illegible]6					23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
9-11-69	22.0	10	233	7.2	81	3.4	8.2	83	191	110					43
9-12-69	22.0	10	233	7.6	85	3.3	8.4	84	191	112					9
9-13-69	22.0	5				3.5	8.4	85							
9-14-69	22.0	5				3.4	8.4	90							
9-15-69	21.5	10	254	8.2	91	3.0	8.3	88	209	124					23
9-16-69	21.5	5	254	8.2	91	3.0	8.4	90	209	120	17		0.08		43
9-17-69	21.0	130	254	7.5	83	3.7	8.3	91	209	122					93
9-18-69	20.0	120	265	7.2	78	4.8	8.1	90	218	122					23
9-19-69	20.0	60	254	7.6	82	3.7	8.1	89	209	118					23
9-20-69	20.0	75				3.6	8.1	89							
9-21-69	20.0	10				3.0	8.1	90							
9-22-69	20.0	20	265	8.2	89	2.4	8.1	91	218	122					43
9-23-69	20.0	10	265	8.5	92	2.3	8.2	93	218	126	14		0.08		93
9-24-69	20.0	15	265	8.2	89	2.5	8.3	91	218	124					23
9-25-69	19.0	35	265	7.6	81	3.0	8.1	90	218	128					23
9-26-69	19.0	10	265	7.7	82	2.6	7.9	90	218	122					93
9-27-69	19.0	8				2.8	8.2	92							
9-28-69	19.0	7				2.8	8.1	92							
9-29-69	18.0	10	265	8.0	83	2.4	7.8	87	218	124					93
9-30-69	18.0	6	254	7.9	82	2.7	8.2	90	209	122	18		0.08		23
Sep. Avg.	21.4	22	261	7.2	79	3.3	8.1	90	214	122	18		0.09		56
Max.	25.0	130	276	8.5	92	5.6	8.4	97	226	130	24		0.10		240
Min.	18.0	5	233	4.0	46	2.3	7.7	83	191	110	14		0.08		9
10-1-69	18.5	6	265	8.3	87	2.2	8.0	90	217	124					23
10-2-69	18.5	6	265	7.7	81	1.6	7.9	91	218	124					93
10-3-69	18.5	6	265	8.0	84	2.2	7.9	92	218	128					93
10-4-69	18.0	5				2.4	8.1	96							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
10-5-69	18.0	50				3.1	8.0	94							
10-6-69	18.5	10	265	8.2	86	2.7	7.9	90	218	122					43
10-7-69	18.5	15	265	8.0	84	2.4	7.9	93	218	122					23
10-8-69	18.0	8	265	8.0	83	2.3	7.9	93	218	124	14		0.08		240
10-9-69	18.0	5	276	8.0	83	2.3	8.0	94	226	132					23
10-10-69	18.0	10	276	8.4	88	2.3	7.9	92	226	124					43
10-11-69	18.0	10				2.2	8.0	93							
10-12-69	18.0	20				2.3	7.9	93							
10-13-69	18.5	60	265	8.8	93	2.6	7.9	96	218	126					240
10-14-69	18.5	20	254	8.8	93	2.6	8.0	96	209	128	12		0.08		460
10-15-69	18.5	15	254	8.9	94	3.1	8.1	97	209	124					23
10-16-69	18.0	20	254	9.5	99	2.4	8.2	97	209	128					240
10-17-69	17.0	10	244	9.3	95	2.1	8.1	94	200	124					240
10-18-69	[illegible]0	10				2.3	8.1	95							
10-19-69	[illegible].5	8				2.2	8.2	95							
10-20-69	15.0	15	276	9.4	93	1.6	8.2	93	226	120					43
10-21-69	15.0	15	265	9.6	95	1.8	8.2	92	218	122					150
10-22-69	14.5	50	265	9.6	94	1.7	8.2	93	218	124	14		0.45		210
10-23-69	13.0	110	276	9.9	94	2.0	8.1	94	226	134					43
10-24-69	12.0	15	297			1.7	8.2	92	244	124					93
10-25-69	12.0	20				1.9	8.2	92							
10-26-69	13.0	10				1.7	8.2	95							
10-27-69	12.5	8	276	10.4	97	1.7	8.4	93	226	122					23
10-28-69	12.0	10	276	10.8	100	1.1	8.4	91	226	126	17		0.10		93
10-29-69	11.0	10	276	11.3	102	1.6	8.5	93	226	132					43
10-30-69	12.0	15	265	11.1	103	1.9	8.4	93	218	126					43
10-31-69	12.0	20	265	11.1	103	1.6	8.5	93	218	120					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
Oct. Avg.	16.0	19	267	9.7	93	2.1	8.1	93	220	125	14		0.18		114
Max.	18.5	110	297	11.3	103	3.1	8.5	97	244	134	17		0.45		460
Min.	11.0	5	244	7.7	81	1.1	7.9	90	200	120	12		0.08		23
11-1-69	12.0	30				1.6	8.4	90							
11-2-69	12.0	20				1.7	8.3	90							
11-3-69	12.0	7	265	10.9	101	1.2	8.5	92	218	112					23
11-4-69	11.5	7	265	11.0	101	1.4	8.5	92	218	112					23
11-5-69	11.0	6	254	11.1	101	1.4	8.5	91	209	122					93
11-6-69	10.5	15	254	11.3	101	1.4	8.5	92	209	122			0.18		23
11-7-69	10.5	25	276	11.4	102	1.5	8.2	92	226	126					23
11-8-69	10.0	55				2.3	8.3	95							
11-9-69	10.0	35				1.3	8.2	95							
11-10-69	10.0	20				1.7	8.2	93							93
11-11-69	10.0	10				1.0	8.2	93							
11-12-69	10.0	10	244	11.1	98	1.0	8.2	89	200	104	11		0.08		23
11-13-69	9.5	7	244	11.2	97	1.1	8.2	90	200	110					43
11-14-69	9.0	7	244	11.0	94	1.0	8.2	90	200	110					15
11-15-69	8.0	8				1.5	8.2	90							
11-16-69	8.0	8				1.2	8.1	90							
11-17-69	8.0	6	265	11.8	99	1.3	8.2	93	218	120					23
11-18-69	8.0	6	265			1.2	8.2	92	218	120	15		0.07		93
11-19-69	8.5	7	265	11.9	101	1.2	8.3	91	218	118					93
11-20-69	7.0	7	265	11.9	98	1.3	8.3	92	218	120					23
11-21-69	6.5	6	254	12.3	100	1.1	8.3	91	209	120					240
11-22-69	7.0	8				1.5	8.2	96							
11-23-69	7.0	8				1.1	8.3	93							
11-24-69	7.0	10	254	12.3	101	1.0	8.3	91	209	120					1,100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BI101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
11-25-69	7.0	8	265	12.5	103	1.1	8.3	90	218	120	14		0.06		1,100
11-26-69	7.0	5	254	12.7	104	1.0	8.3	89	209	114					1,100
11-27-69	7.0	4				1.0	8.3	90							
11-28-69	6.5	45	254	12.7	103	1.7	8.3	93	208	112					1,100
11-29-69	6.0	10				1.0	8.3	94							
11-30-69	5.5	10				1.0	8.4	94							
Nov. Avg.	8.7	14	258	11.7	101	1.3	8.3	92	212	117	14		0.10		291
Max.	12.0	55	276	12.7	104	2.3	8.5	96	226	126	16		0.18		1,100
Min.	5.5	4	244	10.9	94	1.0	8.1	89	200	104	11		0.06		15
12-1-69	6.0	70	244	12.8	102	1.0	8.4	94	200	112					93
12-2-69	4.5	20	339	13.3	103	1.1	8.3	96	278	144	28		0.27		1,100
12-3-69	4.0	50	318	13.1	100	1.1	8.4	95	261	136					43
12-4-69	3.0	85	307	13.2	98	2.6	8.2	95	252	132					460
12-5-69	3.0	35	297	13.6	101	1.9	8.2	96	244	126					460
12-6-69	3.0	20				1.2	8.2	96							
12-7-69	3.0	20				1.5	8.1	96							
12-8-69	3.0	35	297	13.7	102	1.2	8.2	94	244	118					210
12-9-69	3.0	20	297	13.4	99	1.5	8.2	95	244	122	15		0.10		35
12-10-69	3.0	15	307	13.4	99	1.5	8.2	95	252	124					210
12-11-69	3.0	60	286	13.6	101	1.6	8.2	93	235	130					210
12-12-69	3.0	20	307	13.8	102	1.0	8.2	93	252	122					43
12-13-69	3.0	15				1.2	8.2	94							
12-14-69	3.0	20				1.4	8.1	93							
12-15-69	2.5	20	297	13.8	101	1.4	8.2	95	244	130					93
12-16-69	2.5	50	307	14.2	104	1.6	8.3	95	252	126					240
12-17-69	2.0	30	329	14.1	102	2.0	8.2	95	270	134	18		0.10		460

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
12-18-69	2.0	30	339	14.1	102	2.0	8.3	98	278	134					
12-19-69	2.0	20	318	14.1	102	1.5	8.2	93	261	138					93
12-20-69	2.0	7				1.6	8.1	102							240
12-21-69	2.0	6				1.4	8.1	98							
12-22-69	2.0	60	297	14.2	103	1.4	8.2	95	244	126					
12-23-69	1.5	95	329	14.6	104	1.7	8.3	97	270	140	20		0.31		75
12-24-69	2.0		318	14.0	101	5.0	8.2	95	261	128					240
12-25-69	2.0	35				1.4	8.2	98							150
12-26-69	2.0	60	329	14.2	103	1.2	8.2	96	270	132					
12-27-69	1.5	20				1.3	8.1	97							75
12-28-69	1.0	15				1.4	8.1	102							
12-29-69	1.5	35	318	14.4	103	1.5	8.2	101	261	132					
12-30-69	1.5	25	307	14.3	102	1.0	8.1	95	252	124	16		0.08		460
12-31-69	1.5	25	339	14.2	101	1.1	8.1	93	278	130					23
															9
Dec. Avg.	2.5	34	310	13.8	102	1.6	8.2	96	254	129	19		0.17		228
Max.	6.0	95	339	14.6	104	5.0	8.4	102	278	144	28		0.31		1,100
Min.	1.0	6	244	12.8	98	1.0	8.1	93	200	112	15		0.08		9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-2-69	1.0	20	272	14.5	102	1.8	8.0	93	225	140					210
1-3-69	2.0	20	272	15.2	109	1.8	8.0	92	225	180					210
1-6-69	1.5	20	311	14.9	106	2.1	8.0	196	261	158					1,100
1-7-69	2.0	10	311	14.2	103	2.1	8.1	96	261	164					240
1-8-69	1.5	25	311	14.7	104	2.0	8.1	100	261	146					460
1-9-69	1.0	9	311	14.5	102	1.9	3.3	96	261	148					240
1-10-69	2.0	75	291	12.8	93	2.7	8.0	97	243	164					240
1-13-69	1.0	20	331	11.8	83	2.8	8.0	97	278	156	32	29	0.21	0.00	460
1-14-69	2.0	10	311	15.5	111	1.7	8.3	95	261	174					93
1-15-69	2.0	8	311	15.0	108	1.3	8.1	98	261	140					93
1-16-69	2.0	9	311	15.0	108	1.6	8.2	99	261	160					240
1-17-69	3.0	3	291	14.7	109	1.2	8.4	99	243	154					1,100
1-20-69	2.0	3	311	14.6	105	1.3	8.1	96	261	140	18	20	0.10	0.00	240
1-21-69	3.0	30	311	14.2	105	1.6	8.3	89	261	148					2,400
1-22-69	2.0	25	272	15.0	108	1.2	8.2	92	225	144					2,400
1-23-69	4.0	15	291	14.9	113	1.8	8.2	94	243	168					2,400
1-24-69	3.0	10	311	14.0	104	1.6	8.3	94	261	170					1,100
1-27-69	3.0	4	390	16.0	118	1.5	8.3	98	327	164	32	29	0.10	0.00	1,100
1-28-69	3.0	4	331	15.0	110	1.5	8.3	98	278	156					240
1-29-69	3.0	2	291	14.9	109	1.3	8.6	97	243	146					1,100
1-30-69	4.5	7	311	13.3	104	1.5	8.3	96	261	166					1,100
1-31-69	3.0	7	291	14.5	107	1.9	8.7	96	243	160					460
Jan. Avg.	2.3	15	306	14.5	105	1.7	8.2	100	256	156	27	26	0.14	0.00	783
Max.	4.5	75	390	16.0	118	2.8	8.6	196	327	180	32	29	0.21	0.00	2,400
Min.	1.0	2	272	11.8	83	1.2	8.0	89	225	140	18	20	0.10	0.00	93
2-3-69	3.0	7	311	14.7	108	1.3	8.0	95	261	136	25	29	0.12	0.00	93
2-4-69	3.0	7	291	14.8	109	1.8	8.5	94	243	144					93
2-5-69	2.0	15	311	15.4	110	1.5	8.3	94	261	152					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-6-69	2.0	10	311	14.5	104	2.2	8.1	88	261	160					39
2-7-69	2.0	10	272	14.7	105	1.8	8.3	90	225	152					43
2-10-69	3.0	7	311	14.8	109	1.5	8.3	88	261	162					15
2-11-69	3.0	7	272	14.8	109	1.6	8.3	91	225	148					43
2-12-69	3.0	9	291	14.5	107	2.0	8.1	91	243	142					93
2-13-69	3.0	10	311	14.3	105	2.0	8.1	90	261	148					1,100
2-14-69	2.0	15	291	14.0	101	2.0	8.1	96	243	164					460
2-17-69	3.0	20	331	13.5	100	2.7	8.0	97	278	128	35	6	0.20	0.00	43
2-18-69	3.0	20	311	13.7	101	3.1	8.2	93	261	138					43
2-19-69	3.0	20	272	14.8	109	3.2	8.0	91	225	132					75
2-20-69	3.0	20	291	13.7	101	3.4	8.0	91	243	158					8
2-21-69	3.0	20	311	13.7	101	3.2	8.0	94	261	144					9
2-24-69	3.0	20	291	13.2	98	3.4	8.0	89	243	130	24	29	0.21	0.00	39
2-25-69	3.0	15	311	12.8	95	2.7	8.0	97	261	144					1,100
2-26-69	3.0	10	291	13.2	98	2.5	7.9	91	243	136					240
2-27-69	3.0	10	291	13.2	98	3.0	7.8	90	243	136					240
2-28-69	3.0	15	212	13.1	98	3.3	8.1	91	174	134					460
Feb. Avg.	2.8	13	294	14.0	103	2.4	8.1	92	245	144	28	21	0.17	0.00	219
Max.	3.0	20	331	15.4	110	3.4	8.5	97	278	164	35	29	0.21	0.00	1,100
Min.	2.0	7	212	12.8	95	1.3	7.8	88	174	128	24	6	0.12	0.00	8
3-3-69	2.0	15	272	13.2	94	2.3	8.0	91	225	124	26	16	0.17		43
3-4-69	3.0	15	272	13.8	102	2.5	8.0	85	225	144					43
3-5-69	2.0	15	272	13.7	98	2.5	8.0	85	225	126					43
3-6-69	3.0	15	272	14.3	105	3.2	8.1	84	225	130					43
3-7-69	3.0	10	272	14.7	107	2.4	8.6	88	225	130					93
3-10-69	3.0	9	253	14.5	106	2.4	8.2	88	207	126	15	22	0.06		43
3-11-69	3.0	9	253	14.4	105	2.1	8.3	85	207	130					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-12-69	3.0	8	272	16.0	117	2.2	8.4	87	225	128					460
3-13-69	3.0	8	272	15.4	113	2.4	8.4	84	225	136					93
3-14-69	3.0	7	272	15.5	113	2.2	8.4	91	225	128					240
3-17-69	4.0	6	272	15.1	113	1.5	8.3	89	225	132	17	28	0.13		9
3-18-69	4.0	6	272	15.5	116	1.9	8.6	85	225	122					93
3-19-69	4.0	6	272	15.3	115	2.0	8.4	86	225	128					15
3-20-69	5.0	4	253	15.8	115	1.7	8.5	94	207	140					43
3-21-69	5.0	4	272	18.8	112	3.0	8.5	88	225	134					4
3-24-69	5.0	5	291	14.7	113	1.4	8.8	92	243	116	16	27	2.50	0.00	240
3-25-69	6.0	10	272	14.2	112	1.7	8.5	93	225	124					43
3-26-69	6.0	10	291	13.6	107	1.5	8.4	93	243	124					23
3-27-69	6.0	15	291	13.7	108	1.9	8.2	87	243	126					150
3-28-69	6.0	10	272	14.2	112	2.7	8.7	89	225	126					15
3-31-69	5.0	10	311	13.4	104	3.6	8.4	90	261	118	22	27	0.15	0.00	1,100
Mar. Avg.	4.0	9	274	14.5	109	2.2	8.4	88	227	128	19	24	0.60	0.00	146
Max.	6.0	15	311	16.0	117	3.6	8.8	94	261	144	26	28	2.50	0.00	1,100
Min.	2.0	4	253	13.2	94	1.4	8.0	84	207	116	15	16	0.06	0.00	4
4-1-69	7.0	8	291	13.5	110	2.3	8.3	87	243	122					9
4-2-69	6.0	7	291	14.5	115	2.5	8.5	89	243	112					93
4-3-69	8.8	8	291	13.5	115	2.5	8.3	89	243	138					93
4-4-69	8.0	6	272	13.4	111	1.9	8.2	91	225	134					43
4-7-69	7.0	10	253	13.4	109	1.7	7.9	92	207	130	22	23	0.15	0.00	43
4-8-69	8.0	9	253	12.5	105	2.2	7.9	90	207	134					240
4-9-69	8.0	30	253	12.3	103	2.0	8.1	97	207	154					240
4-10-69	8.0	8	253	12.7	106	2.3	7.9	90	207	134					93
4-11-69	9.0	10	272	12.3	105	2.0	8.0	92	225	140					93
4-14-69	10.0	6	272	11.6	102	3.2	8.0	89	225	142					9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-15-69	12.0	6	311	11.6	106	2.7	7.9	93	261	128					150
4-16-69	12.0	4	272	12.0	110	-	8.0	93	225	132	17	23	0.10	0.00	43
4-17-69	11.0	4	272	11.5	103	2.8	7.9	92	225	128					23
4-18-69	10.0	25	291	10.9	96	2.2	8.0	93	243	132					93
4-21-69	11.0	40	291	11.4	102	2.2	8.0	91	243	124	23	25	0.55	0.00	93
4-22-69	11.0	40	291	11.2	100	2.1	8.0	89	243	154					17
4-23-69	9.0	35	272	11.5	99	2.4	7.9	90	225	106					1,100
4-24-69	11.0	40	331	11.5	103	1.5	7.9	97	278	158					240
4-25-69	12.0	20	311	11.7	107	2.1	8.1	96	261	166					210
4-28-69	12.0	10	311	10.2	94	1.9	8.2	95	261	138	-	30	0.10	-	93
2-29-69	11.0	20	291	11.0	99	1.8	8.2	98	243	126					43
4-30-69	12.0	15	311	10.7	98	1.5	8.0	93	261	118					240
Apr. Avg.	9.7	16	284	12.0	104	2.9	8.1	92	236	134	21	25	0.23	0.00	150
Max.	12.0	40	331	14.5	115	3.2	8.5	98	278	166	23	30	0.55	0.00	1,100
Min.	6.0	4	253	10.2	94	1.5	7.9	87	207	106	17	23	0.10	0.00	9
5-1-69	12.0	10	311	11.0	101	2.6	8.0	93	261	144					23
5-2-69	13.0	9	311	10.4	98	2.2	8.4	98	261	148					23
5-5-69	13.0	7	311	11.3	106	2.3	8.2	97	261	136	17	25	0.09	0.00	93
5-6-69	14.0	15	291	11.7	112	2.1	8.2	96	261	114					9
5-7-69	13.0	7	291	12.2	114	1.9	8.0	96	243	126					43
5-8-69	16.0	7	291	12.6	126	2.0	8.4	90	243	142					15
5-9-69	15.0	10	291	11.2	110	2.3	8.3	99	243	138					93
5-12-69	14.0	10	331	11.5	110	2.5	8.2	100	278	150	29	20	0.15	0.00	1,100
5-13-69	14.0	10	311	12.0	115	2.7	8.5	98	261	142					240
5-14-69	14.0	6	291	11.1	106	3.0	8.5	98	243	138					43
5-15-69	15.0	15	291	11.8	115	2.9	8.5	101	243	146					240
5-16-69	15.0	7	272	9.0	89	2.9	7.8	98	225	146					29

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
5-19-69	14.0	30	311	9.4	90	2.1	8.0	102	261	148	27	27	0.40	0.00	240
5-20-69	14.0	5	311	10.2	98	3.2	8.2	98	261	146					240
5-21-69	14.0	8	291	11.1	106	2.5	8.7	103	243	144					93
5-22-69	14.0	30	272	9.4	90	2.5	7.8	98	225	148					1,100
5-23-69	15.0	25	311	9.1	90	3.5	8.0	94	261	140					460
5-26-69	15.0	20	272	9.3	91	2.5	8.0	98	225	120	20	26	0.30	-	460
5-27-69	16.0	25	311	9.2	93	2.5	8.0	98	261	148					460
5-28-69	15.0	15	311	9.2	90	2.2	8.1	98	261	156					23
5-29-69	19.0	10	311	7.6	80	2.7	8.0	97	261	140					43
5-30-69	20.0	10	311	8.4	91	2.1	8.3	102	261	150					75
May Avg.	14.7	13	300	10.4	101	2.5	8.2	98	251	141	23	25	0.24	0.00	234
Max.	20.0	30	331	12.6	126	3.5	8.7	103	278	156	29	27	0.40	0.00	1,100
Min.	12.0	5	272	7.6	80	1.9	7.8	90	225	114	17	20	0.09	0.00	15
6-2-69	17.0	6	311	6.6	67	2.5	7.9	102	261	146	25	20	0.10	0.00	23
6-3-69	17.0	15	291	6.8	70	2.7	7.9	104	243	152					93
6-4-69	17.0	9	311	6.8	70	2.4	7.8	103	261	166					240
6-5-69	18.0	9	272	8.4	88	2.8	8.0	100	225	152					15
6-6-69	18.0	9	272	7.8	81	2.8	8.0	101	225	152					460
6-9-69	17.0	10	311	6.8	70	2.3	7.8	98	261	148	25	25	0.17	-	23
6-10-69	18.0	15	253	8.5	90	2.7	8.0	105	207	144					240
6-11-69	18.0	7	272	6.6	69	2.3	7.9	106	225	150					23
6-12-69	20.0	10	291	7.3	80	3.1	7.8	103	243	148					21
6-13-69	19.0	8	272	6.9	73	2.4	7.9	103	225	145					93
6-16-69	17.0	9	311	8.3	85	2.2	8.0	109	261	148	37	26	0.15	0.00	240
6-17-69	18.0	10	272	8.0	84	2.6	7.9	109	225	146					240
6-18-69	17.0	7	311	7.1	72	2.4	8.0	110	261	158					150
6-19-69	19.0	9	291	7.6	80	2.8	7.9	107	243	162					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-20-69	18.0	10	272	7.7	80	2.9	7.8	108	225	160					210
6-23-69	19.0	9	311	8.0	85	2.2	8.0	107	261	146	30	17	0.20	-	240
6-24-69	19.0	15	272	8.6	92	2.7	7.9	101	225	146					43
6-25-69	19.0	7	311	7.1	75	2.2	7.9	102	261	146					43
6-26-69	21.0	10	311	7.7	85	2.4	7.8	101	261	156					9
6-30-69	21.0	4	311	7.6	85	-	7.8	97	261	142	25	24	0.13	0.00	150
June Avg.	18.3	9	291	7.5	79	2.5	7.9	104	243	151	28	22	0.15	0.00	140
Max.	21.0	15	311	8.6	92	3.1	8.0	110	261	166	37	26	0.20	0.00	460
Min.	17.0	4	253	6.6	67	2.2	7.8	97	207	142	25	17	0.10	0.00	9
7-1-69	22.0	9	291	8.5	96	2.2	8.2	98	243	142					150
7-2-69	21.0	6	291	9.5	105	1.8	8.1	98	243	158					240
7-3-69	22.0	6	291	9.5	107	2.0	8.3	100	243	144					21
7-4-69	22.0	4	291	6.0	68	1.9	7.9	104	243	148					23
7-7-69	21.0	25	272	6.0	67	2.8	7.8		225	130		26			1,100
7-8-69	21.0	230	212	7.0	78	2.4	7.9	91	174	140					2,400
7-9-69	21.0	180	272	6.8	75	2.9	7.8	89	225	136					2,400
7-10-69	23.0	80	272	5.8	67	3.7	7.6	97	225	150					1,100
7-11-69	23.5	40	311	6.4	74	3.9	7.7	98		154					2,400
7-14-69	24.0	15	311	6.4	75		7.9	104	261	130	25	28	0.08	0.0	2,400
7-15-69	24.0	12	311	4.5	53	4.0	7.7	105	261	154					93
7-17-69	24.0	7	311	2.0	23	4.1	7.5	105	261	150					75
7-18-69	24.0	6	311	2.0	23	4.3	7.4	107	261	154					460
7-21-69	24.0	7	311	4.6	54	3.0	7.8	110	261	154	39	22	0.16	0.0	15
7-22-69	25.0	9	311	4.0	48	3.9	7.7	99	261	156					36
7-23-69	25.0	25	311	4.1	49	3.8	7.7	100	261	138					1,100
7-24-69	26.0	10	311	3.5	42	3.3	7.4	101	261	134					75
7-25-69	26.0	10	311	4.4	53		7.8	101	261	146					150
7-28-69	26.0	6	291	1.8	22	4.4	7.7	103	243	140	21	26	0.10	0.0	93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
7-29-69	25.0	10	291	5.2	62	4.4	7.7	105	243	152					28
7-30-69	26.0	6	272	4.5	54	4.5	7.8	101	225	140					210
7-31-69	25.0	9	291	2.6	31	3.5	7.7	107	243	144					15
July Avg.	23.7	32	292	5.2	60	3.3	7.8	101	244	145	28	26	0.11	0.0	663
Max.	26.0	230	311	9.5	107	4.5	8.3	110	261	158	39	28	0.16	0.0	2,400
Min.	21.0	4	212	1.8	22	1.8	7.4	89	174	130	21	22	0.08	0.0	15
8-1-69	24.0	7	291	2.1	25	4.3	7.6	104	243						210
8-4-69	26.0	10	291	9.5	115	4.5	7.8	99	243						21
8-5-69	25.0	10	291	7.4	88	4.0	8.1	98	243						43
8-6-69	25.0	10	272	5.9	70	4.2	7.9	105	225						11
8-7-69	25.0	5	311	3.2	38	4.0	7.5	105	261						43
8-8-69	25.0	4	311	4.5	53	4.2	7.8	101	261						43
8-11-69	24.0	9	291	8.9	104	4.0	8.2	103	243						93
8-12-69	25.0	5	272	9.8	116	3.9	8.5	104	225						43
8-13-69	24.0	8	272	8.9	104	3.7	8.3	105	225						210
8-14-69	25.0	10	311	4.5	53	4.0	7.5	103	261						240
8-15-69	25.0	8	311	2.0	24	3.4	7.5	102	261						1,100
8-18-69	23.0	6	291	1.9	22	4.2	7.5	100	243		20	26	0.13	0.0	28
8-19-69	25.0	7	291	6.5	77	4.2	8.0	101	243						44
8-20-69	25.0	10	291	7.6	90	4.2	8.5	99	243						53
8-21-69	24.0	9	291	7.0	82	4.0	8.5	98	243						460
8-22-69	24.0	5	272	7.3	85	4.0	8.5	100	225						93
8-25-69	23.0	5	291	4.6	53	3.1	8.1	101	243		17	25	0.00	0.0	150
8-26-69	26.0	8	291	8.3	100	3.5	8.5	102	243						9
8-28-69	26.0	5	311	5.2	63	4.0	8.2	99	261						43
8-29-69	25.0	6	291	4.7	56	4.2	8.0	100	243						21

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
Aug. Avg.	24.7	7	292	6.0	71	4.0	8.0	101	244	140	19	26	0.07	0.0	148
Max.	26.0	10	311	9.8	116	4.5	8.5	105	261	154	20	26	0.13	0.0	1,100
Min.	23.0	4	272	1.9	22	3.1	7.5	98	225	128	17	25	0	0.0	9
9-1-69	25.0	8	311	2.2	26	3.6	7.8	100	261	140					15
9-2-69	25.0	7	291	4.0	47	4.2	7.9	100	243	138	15	25	0.00	0.00	240
9-3-69	24.0	5	291	4.6	53	3.7	7.8	100	234	138					93
9-4-69	25.0	8	311	0.0	0	4.4	8.3	96	261	140					93
9-5-69	25.0	10	311	5.1	60	3.6	8.3	107	261	144					150
9-8-69	23.0	10	291	6.6	75	4.0	8.2	100	243			26			93
9-9-69	22.0	7	272	8.5	95	3.7	8.3	98	225	134					240
9-10-69	21.0	4	291	7.2	79	5.9	8.1	100	243	136					93
9-11-69	22.0	9	272	9.5	107	4.9	8.5	96	225	134					93
9-12-69	22.0	10	253	9.7	109	4.6	8.5	94	207	136					240
9-14-69	22.0	5	311	7.6	85	5.1	8.1	97	261	144	23	24	0.05		29
9-15-69	21.0			6.7	74										
9-16-69	22.0	5	291	8.0	90	4.5	8.3	103	243						29
9-17-69	21.0	3	291	7.3	81	3.4	8.3	102	243	142					460
9-18-69	21.0	25	272	8.0	88	4.2	8.0	97	225	138					460
9-19-69	20.0	15	291	8.0	87	5.3	8.1	106	243	134					93
9-22-69	19.0	8	291	7.8	83	4.0	8.6	99	243	126	23	28	0.00		1100
9-23-69	21.0	8	291	8.4	93	4.2	8.4	103	243	140					93
9-25-69	19.0	10	272	9.3	99	4.3	8.2	101	225	134					1100
9-26-69	19.0	8	272	9.5	101	3.3	8.4	108	225	124					460
9-29-69	17.0	3	272	10.2	105	2.5	8.1	100	225	122	21	24	0.00	0.00	460
9-30-69	18.0	4	272	10.0	104	2.9	8.4	103	225	138					990
Sep. Avg.	21.5	8	287	7.2	79	4.1	8.2	100	238	136	21	25	0.00	0.00	290
Max.	25.0	25	311	10.2	109	5.9	8.6	108	261	144	23	28	0.05	0.00	1100
Min.	17.0	3	253	0.0	0	2.5	7.8	94	207	122	15	24	0.00	0.00	15

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
10-1-69	18.0	3	272	8.0	83	2.6	8.0	100	225	138					460
10-2-69	19.0	6	272	8.8	94	4.3	7.9	104	225	144					210
10-3-69	19.0	4	272	8.4	89	3.8	8.0	100	225	136					210
10-6-69	18.0	6	272	9.0	94	3.4	8.0	98	225	136	20	25	0.03	0.00	210
10-7-69	19.0	6	272	8.0	85	3.4	8.0	94	225	150					15
10-8-69	17.0	5	272	8.8	90	3.2	8.0	102	225	148					210
10-9-69	17.0	5	272	8.9	91	3.5	8.3	111	225	128					93
10-10-69	19.0	7	291	8.7	93	3.4	8.0	108	243	140					460
10-13-69	18.0	10	291	8.5	89	3.2	8.0	108	243	144	20	25	0.09	0.00	210
10-14-69	17.0	15	272	9.8	100	3.7	8.0	101	225	144					460
10-15-69	16.0	8	291	8.7	87	2.7	7.9	98	243	140					1100
10-16-69	17.0	10	253	9.4	96	3.3	8.1	98	207	146					460
10-17-69	15.0	15	253	10.5	103	3.7	8.2	105	207	144					1100
10-20-69	15.0	4	311	9.6	95	3.7	7.9	96	261	132	18	24	0.07	0.00	150
10-21-69	15.0	10	253	10.0	99	3.3	8.0	102	207	142					210
10-22-69	14.0	10	311	9.8	95	3.5	8.0	102	261	138					240
10-23-69	13.0	15	253	10.8	102	3.6	8.1	97	207	152					240
10-24-69	12.0	8	253	11.4	106	2.9	8.1	95	207	146					1100
10-27-69	13.0	6	291	11.2	106	2.6	8.0	94	243	140	17	24	0.50	0.00	1100
10-28-69	12.0	6	253	11.6	108		8.3	98	207	144					2400
10-29-69	12.0	2	311	11.4	106	1.9	8.0	98	261						240
10-30-69	13.0	10	253	11.6	110	3.2	8.3	100	207	138					240
10-31-69	12.0	7	212	11.4	106	3.7	8.3	100	174	138					93
Oct. Avg.	15.4	8	272	9.8	97	3.3	8.1	100	225	141	18	24	0.06	0.00	818
Max.	19.0	15	311	11.6	108	4.3	8.3	111	261	152	23	26	0.10	0.00	2400
Min.	12.0	2	212	8.0	83	1.9	7.9	94	174	128	16	22	0.03	0.00	43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
11-3-69	12.0	4	311	10.8	100	3.3	8.3	101	261	128	17	24	0.03	0.00	240
11-4-69	11.0	4	253	12.2	111	3.0	8.4	101	207	142					93
11-5-69	11.0	3	272	11.1	101	2.6	8.2	101	225	148					43
11-6-69	11.0	90	253	11.8	107	3.0	8.4	100	207	142					93
11-7-69	11.0	7	212	11.6	105	2.9	8.3	98	174	148					93
11-10-69	10.0	6	291	11.2	99	2.5	8.0	95	243	138	16	26	0.05	0.00	2400
11-11-69	10.0	6	212	12.3	109	2.9	8.0	96	174	134					93
11-12-69	11.0	4	291	11.5	104	2.4	8.0	95	243	126					460
11-13-69	10.0	6	212	11.2	99	2.4	8.0	96	174	134					1100
11-14-69	9.0	5	212	11.7	101	2.5	8.0	95	174	136					460
11-17-69	10.0	3	291	11.6	103	2.1	7.9	91	243	162	17	23	0.05	0.00	460
11-18-69	9.0	3	291	12.5	107	2.2	7.9	95	261	138					460
11-19-69	9.0	4	291	12.1	104	2.3	8.1	100	243	148					460
11-20-69	7.0	10	253	12.5	103	2.4	8.0	101	207	138					460
11-21-69	7.0	25	253	12.9	105	2.5	8.0	101	207	146					2400
11-24-69	7.0	9	291	11.8	97	2.6	8.1	98	243	138	23	22	0.10	0.00	2400
11-25-69	7.0	9	253	12.8	105	2.3	8.1	102	207	142					240
11-26-69	7.0	4	272	14.0	115	2.5	8.0	96	225	138					2400
11-27-69	7.0	7	253	12.6	103	3.0	8.1	99	207	140					1100
11-28-69	6.0	10	291	13.0	104	3.0	8.1	99	243	146					1100
Nov. Avg.	9.1	11	263	12.1	104	2.6	8.1	98	218	141	18	24	0.06	0.00	828
Max.	12.0	90	311	14.0	115	3.3	8.4	102	261	162	23	26	0.10	0.00	2400
Min.	6.0	3	212	10.8	97	2.1	7.9	91	174	126	16	22	0.03	0.00	43
12-1-69	6.0	7	291	13.2	106	2.4	8.0	95	243	120	17	25	0.05	0.00	93
12-2-69	5.0	8	311	13.6	106	2.8	8.2	106	261	142					43
12-3-69	4.0	6	311	13.6	104	2.5	8.0	100	261	160					43
12-4-69	3.0	15	311	13.6	101	3.0	8.1	106	261	146					1100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
12-4-69	3.0	15	311	13.6	101	3.0	8.1	106	261	146					1100
12-5-69	3.0	15	291	14.1	105	3.0	8.1	106	243	146					2400
12-8-69	4.0	10	311	13.3	101	2.9	7.9	95	261	146	24	24	0.08	0.00	2400
12-9-69	4.0	8	311	13.2	100	2.5	7.9	108	261	138					460
12-10-69	4.0	7	331	13.3	101	2.7	7.9	108	278	161					2400
12-11-69	4.0	15	291	13.7	104	2.3	8.2	99	243	144					460
12-12-69	3.0	15	291	13.9	103	2.8		100	243	148					1100
12-15-69	2.0	10	311	14.6	106			97	261	140	25	21	0.10	0.00	2400
12-16-69	3.0	10	291	14.3	106	3.0		94	243	140					93
12-17-69	2.0	6	311	12.1	87	2.7		96	261	150					1100
12-18-69	2.0	8	291	14.1	102	3.0		98	243	150					1100
12-19-69	3.0	10	311	14.2	105	2.8		98	261	140					1100
12-22-69	2.0	15	311	15.2	110	2.2		94	261	151	23	29	0.08	0.00	240
12-23-69	2.0	20	311	14.6	106	2.7		98	261	150					460
12-24-69	2.0	45	311	14.1	102	3.4		97	261						93
12-25-69	2.0	15	311	14.5	105	4.5		100	261	156					2400
12-26-69	2.0	15	311	14.1	102	3.6		99	261	160					93
12-29-69	2.0	7	331	14.7	106	3.1		98	278	140	25	15	0.09	0.00	460
12-30-69	2.0	8	311	14.5	105	2.5		102	261	164					240
Dec. Avg.	3.0	13	307	13.9	103	2.9	8.0	100	258	147	23	23	0.08	0.00	921
Max.	6.0	45	331	15.2	110	4.5	8.2	108	278	164	25	29	0.10	0.00	2400
Min.	2.0	6	291	12.1	87	2.2	7.9	94	243	120	17	15	0.05	0.00	43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	CL	T. Fe	T. Mn	T. Coli.
1-1-69	1.8	40	225	13.0	94	1.5	7.5	95		132					11,000
1-2-69	1.8	30	205	13.5	98	1.3	7.5	100		132					460
1-3-69	1.3	20	225	14.0	100	1.6	7.8	95		140		25			43
1-4-69	1.2	20	250	13.7	98	1.1	7.8	95		154	60		0.77	0.0	110
1-5-69	1.0	20	220	14.0	99	1.1	7.8	95		134					140
1-6-69	1.2	20	225	14.0	100	1.0	7.8	100		140					72
1-7-69	1.2	30	210	14.4	102	1.0	8.0	95		136					150
1-8-69	2.0	20	230	13.9	101	0.8	7.9	100		140					210
1-9-69	2.0	20	220	14.2	103	1.6	7.9	95		136					360
1-10-69	1.5	30	225	14.5	103	1.1	7.9	100		150					200
1-11-69	1.1	10	220	13.2	100	1.0	7.9	95		126	21	25	0.15	0.0	640
1-12-69	1.2	10	225	14.2	100	0.2	7.9	100		140					4,600
1-13-69	1.7	20	225	15.0	108	1.3	7.8	95		140					460
1-14-69	1.4	20	225	14.2	101	1.4	7.9	100		144					11,000
1-15-69	1.4	30	230	13.8	99	1.5	7.9	100		150					1,500
1-16-69	1.8	20	225	14.2	102	1.5	8.1	100		154					140
1-17-69	2.2	20	225	14.4	105	1.2	7.9	95		140					240
1-18-69	1.3	20	225	15.0	106	1.1	8.0	100		132	23	22	0.13	0.0	200
1-19-69	1.2	20	230	14.0	99	1.1	7.9	95		136					280
1-20-69	2.5	30	220	14.6	106	1.3	7.5	95		150					930
1-21-69	2.5	20	210	14.0	103	1.4	7.6	95		148					2,400
1-22-69	2.8	40	220	14.5	107	1.2	7.7	100		140					2,400
1-23-69	2.1	50	225	13.2	96	1.6	7.9	100		136					4,600
1-24-69	2.4	40	225	13.6	99	1.2	7.9	100		134		24			2,400
1-25-69	1.8	10	225	13.9	100	0.9	8.1	100		134	19		0.40	0.0	11,000
1-26-69	1.2	10	225	14.4	102	1.2	8.1	100		138					23
1-27-69	1.4	10	225	14.4	103	1.0	8.0	100		146					930
1-28-69	1.3	10	230	14.5	104	1.5	8.1	100		144					4,600

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-69	1.3	30	230	14.5	104	1.3	8.1	100		134					460
1-30-69	1.4	30	230	14.2	101	0.9	8.1	100		140					460
1-31-69	1.5	20	225	13.4	96	1.5	7.9	95		138		25			75
Jan. Avg.	1.6	23	224	14.1	101	1.2	7.8	98		140	31	24	0.36	0.0	2,003
Max.	2.8	40	250	15.0	108	1.6	8.1	100		154	60	25	0.77	0.0	11,000
Min.	1.0	10	210	13.0	94	0.8	7.5	95		132	19	22	0.13	0.0	23
2-1-69	2.5	30	230	13.5	99	0.7	8.1	100		140	24		0.40	0.0	1,100
2-2-69	3.0	35	225	13.3	99	1.3	8.0	100		140					460
2-3-69	3.4	35	225	13.4	101	1.1	8.1	95		138					2,100
2-4-69	3.0	35	220	13.3	99	1.1	8.1	100		140					750
2-5-69	2.5	35	210	13.5	99	1.5	8.0	100		142					750
2-6-69	2.1	30	200	13.6	99	1.4	8.0	100		144					1,500
2-7-69	2.1	30	220	14.0	101	1.3	7.9	90		143					43
2-8-69	2.2	30	225	14.1	102	1.4	7.9	95		132	30	24	0.30	0.0	460
2-9-69	2.3	25	215	14.5	104	1.1	7.8	90		136					93
2-10-69	2.5	30	220	14.5	105	0.9	7.9	95		142					150
2-11-69	2.4	30	215	14.3	104	1.1	8.1	100		140					93
2-12-69	1.2	20	215	14.0	100	1.2	8.0	100		140					93
2-13-69	1.3	20	225	13.8	99	1.3	7.9			140					43
2-14-69	2.5	20	215	14.4	105	1.5	8.0	95		144		24			4,600
2-15-69	1.7	10	225	14.0	101	1.5	8.0	90		140	33		0.23	0.0	240
2-16-69	1.4	10	225	14.4	102	1.2	8.0	100		140					93
2-17-69	2.0	10	230	14.4	103	1.0	8.1	100		142					93
2-18-69	2.5	20	230	14.5	105	1.3	8.1	95		142					240
2-19-69	2.3	20	230	14.6	105	1.1	8.1	100		140					39
2-20-69	2.5	20	230	14.6	106	1.0	8.1	100		134					200
2-21-69	2.7	20	230	14.2	104	1.3	8.1	100		136		24			43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-22-69	2.2	25	225	14.8	106	1.2	8.2	100		136	31		0.18	0.0	75
2-23-69	2.3	20	225	14.6	105	0.9	8.1	100		136					150
2-24-69	2.5	20	230	14.3	104	1.5	8.2	100		138					93
2-25-69	2.4	20	220	14.4	104	1.6	8.1	95		134					93
2-26-69	2.5	25	215	13.7	100	1.1	8.0	100		136					150
2-27-69	2.5	30	215	13.8	101	1.1	7.8	90		136					43
2-28-69	2.4	25	215	14.0	103	1.4	7.8	90		140		23			150
Feb. Avg.	2.3	24	221	14.1	102	1.2	8.0	97		139	29	24	0.27	0.0	498
Max.	3.4	35	230	14.8	106	1.6	8.2	100		144	33	24	0.40	0.0	4,600
Min.	1.2	10	200	13.3	99	0.7	7.8	90		132	24	23	0.15	0.0	39
3-1-69	2.5	20	205	13.8	101	1.2	7.9	95		130	20		0.33	0.0	150
3-2-69	2.7	30	210	13.5	98	1.5	7.9	95		130					43
3-3-69	2.4	30	205	14.0	102	1.2	8.0	95		130					75
3-4-69	2.4	20	200	14.2	103	1.4	8.0	100		120					240
3-5-69	2.4	20	200	13.5	97	1.2	8.0	-		124					460
3-6-69	1.8	20	190	12.9	92	1.5	8.0	95		120					43
3-7-69	2.0	20	200	13.6	97	1.9	8.0	95		120		20			110
3-8-69	1.9	20	200	13.5	97	1.6	8.0	100		122	26		0.46	0.0	1,100
3-9-69	2.5	20	205	13.0	101	1.8	7.9	100		122					460
3-10-69	2.0	20	195	13.5	97	1.5	8.0	95		124					140
3-11-69	1.7	20	205	13.5	96	1.9	8.1	95		124					150
3-12-69	1.9	20	220	13.7	97	1.5	8.1	100		126					1,100
3-13-69	1.7	20	220	13.5	96	1.7	8.0	100		132					210
3-14-69	1.7	20	225	13.4	95	1.4	8.0	100		132		23			93
3-15-69	1.6	20	220	13.3	95	1.7	8.0	100		130	23		0.47	0.0	240
3-16-69	1.5	25	210	13.1	93	1.7	8.1	95		132					460
3-17-69	1.4	20	220	13.2	94	1.6	8.1	95		130					140

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-18-69	1.5	25	225	13.3	95	1.3	8.1	100		134					750
3-19-69	2.0	30	210	14.0	100	1.4	8.0	95		120					93
3-20-69	2.5	25	205	13.8	101	1.5	8.1	90		126					93
3-21-69	2.0	30	210	13.4	97	1.4	8.2	95		130					1,100
3-22-69	3.7	25	210	13.6	102	0.8	7.9	95		132	20		0.60	0.0	43
3-23-69	2.5	30	215	13.5	98	1.0	8.2	95		136					460
3-24-69	4.9	20	200	14.0	108	1.1	8.4	100		126					93
3-25-69	6.0	30	190	13.1	103	1.3	8.4	100		126					43
3-26-69	4.4	30	190	13.0	100	0.7	8.3	400		124					43
3-27-69	3.5	30	200	13.2	98	1.4	8.1	100		124					93
3-28-69	3.6	30	200	13.1	97	0.8	8.1	100		125		24			43
3-29-69	4.7	25	205	13.2	101	1.2	8.1	100		124	22		0.59	0.0	43
3-30-69	4.6	25	205	12.7	97	0.7	8.2	100		128					240
3-31-69	3.8	50	205	13.2	99	1.0	8.2	100		132					150
Mar. Avg.	2.7	25	206	13.4	98	1.4	8.1	98		127	22	22	0.49	0.0	274
Max.	6.0	50	225	14.2	108	1.9	8.4	100		136	26	24	0.60	0.0	1,100
Min.	1.4	20	190	12.7	92	0.7	7.9	90		120	20	20	0.38	0.0	43
4-1-69	4.0	40	225	13.3	101	1.2	8.1	100		144					1,100
4-2-69	4.9	40	225	13.0	100	0.7	8.1	100		124					43
4-3-69	4.4	50	225	12.7	97	1.4	8.1	95		144					75
4-4-69	5.0	50	230	12.2	95	1.0	8.2	100		164		23			460
4-5-69	6.5	40	225	12.0	97	1.5	8.1	100		116	21	25	0.27	0.0	43
4-6-69	6.5	60	210	12.0	97	1.3	8.0	95		120					2,900
4-7-69	6.4	70	200	12.1	98	1.1	7.8	90		122					2,100
4-8-69	7.5	90	205	12.7	104	0.6	8.0	90		138					4,600
4-9-69	8.2	80	210	13.5	113	0.9	7.8	90		130					2,100
4-10-69	9.5	60	215	13.0	113	0.9	8.2	100		120					280

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-11-69	9.0	80	205	12.5	107	0.9	8.1	95		130					1,100
4-12-69	8.1	50	210	11.1	93	1.0	7.8	95		136	23	20	0.59	0.0	2,400
4-13-69	8.0	30	200	11.2	94	1.3	8.0	-		124					4,600
4-14-69	8.3	30	200	11.3	95	1.3	8.0	95		120					150
4-15-69	8.3	30	200	11.3	95	1.5	8.0	100		128					460
4-16-69	9.6	30	200	11.0	96	1.0	8.0	100		124					240
4-17-69	9.6	30	200	11.5	100	1.0	8.0	95		124					93
4-18-69	9.8	25	200	11.3	98	0.8	8.0	95		122		22			460
4-19-69	8.3	1000	210	10.2	91	1.2	7.0	100		138	33		6.80	0.0	11,000
4-20-69	8.8	500	200	10.7	91	1.6	7.8	-		120					4,600
4-21-69	9.5	100	195	10.9	91	1.2	7.8	100		122					1,100
4-22-69	10.6	60	200	9.7	91	1.6	7.7	95		126					750
4-23-69	9.6	100	200	10.5	91	0.9	8.0	100		130					200
4-24-69	9.3	100	200	10.6	92	1.2	8.0	95		116					240
4-25-69	10.0	80	210	10.2	90	1.0	7.8	95		120		23			750
4-26-69	10.4	40	210	10.0	88	1.0	7.8	100		-	32		1.10	0.0	1,600
4-27-69	10.1	30	200	10.1	89	1.1	7.8	100		130					1,500
4-28-69	10.2	40	205	12.0	106	-	7.8	95		140					4,600
4-29-69	10.1	60	210	11.5	101	0.7	8.0	100		130					2,400
4-30-69	10.5	40	215	11.0	98	0.4	7.7	90		140					93
Apr. Avg.	8.4	101	208	11.5	97	1.1	7.9	97		129	27	23	2.19	0.0	1,735
Max.	10.6	1000	230	13.5	113	1.6	8.2	100		164	33	25	6.80	0.0	11,000
Min.	4.0	25	195	9.7	88	0.4	7.0	90		116	21	20	0.27	0.0	93
5-1-69	10.5	30	210	11.2	98	0.5	7.8	90		130					240
5-2-69	10.5	30	205	11.5	103	0.3	8.0	95		120		22			1,100
5-3-69	11.8	20	210	10.5	96	1.0	8.4	100		128	24		0.40	0.0	1,100
5-4-69	12.3	30	210	10.5	97	0.9	8.3	100		126					460

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
5-5-69	11.4	20	200	10.5	95	1.0	8.0	100		126					150
5-6-69	11.6	40	200	10.6	97	0.7	8.0	100		126					1,100
5-7-69	10.8	30	210	10.4	97	0.7	8.1	100		124					1,100
5-8-69	12.0	25	205	11.2	103	0.7	8.3	100		130					1,500
5-9-69	13.5	25	205	11.0	105	0.6	8.3	95		126		22			460
5-10-69	12.3	45	205	10.5	97	0.9	8.3	100		132	21		1.40	0.0	1,500
5-11-69	12.7	80	225	10.5	98	0.8	8.3	100		134					750
5-12-69	13.0	65	225	10.7	100	0.6	8.3	95		140					460
5-13-69	13.0	40	230	10.4	97	1.1	8.4	100		142					2,400
5-14-69	13.6	30	240	10.2	97	0.7	8.4	100		140					240
5-15-69	13.8	25	240	10.4	100	0.7	8.4	100		134					150
5-16-69	12.8	20	210	9.6	90	0.8	8.4	100		132		23			150
5-17-69	15.2	15	240	10.0	99	0.9	8.4	95		132	28		0.40	0.0	43
5-18-69	15.2	30	220	11.0	110	0.8	8.4	90		140					4,600
5-19-69	14.0	40	215	10.7	103	0.7	8.2	85		130					2,400
5-20-69	14.5	30	210	11.5	111	0.8	8.3	90		140					460
5-21-69	15.5	90	205	9.5	95	0.0	8.0	95		120					11,000
5-22-69	15.0	80	215	11.5	113	0.8	8.2	80		130					2,400
5-23-69	14.3	40	210	9.0	88	1.2	8.3	100		134		25			240
5-24-69	13.8	30	200	8.5	80	1.4	8.3	100		126	24		0.61	0.0	1,100
5-25-69	13.9	30	200	8.6	82	1.4	-	95		126					460
5-26-69	14.3	40	225	9.0	87	1.3	8.1	95		128					1,100
5-27-69	14.5	40	225	9.0	88	1.0	8.1	100		128					750
5-28-69	14.7	25	220	8.6	94	0.8	8.1	100		132					460
5-29-69	14.8	25	225	9.2	90	1.0	8.3	100		132					1,100
5-30-69	15.6	20	230	9.0	90	1.1	8.3	100		134		24			750
5-31-69	16.8	25	225	7.6	77	1.0	8.1	95		136	26		0.56	0.0	460

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
May Avg.	13.5	36	216	10.0	96	0.8	8.2	97		131	25	23	0.67	0.0	1,296
Max.	16.8	90	240	11.5	113	1.4	8.4	100		142	28	25	1.40	0.0	11,000
Min.	10.5	15	200	7.6	77	0.0	7.8	80		120	21	22	0.40	0.0	43
6-1-69	16.6	25	225	7.3	73	1.5	8.1	100		138					460
6-2-69	17.0	35	220	7.2	73	1.1	8.0	100		136					240
6-3-69	17.2	30	230	7.5	77	1.2	8.0	100		134					93
6-4-69	16.8	30	235	7.2	73	1.4	8.0	95		136					240
6-5-69	17.4	35	230	7.0	72	1.9	8.0	100		134					200
6-6-69	17.6	30	220	7.4	76	1.8	8.0	100		134		23			460
6-7-69	18.0	25	210	7.6	79	1.6	8.2	95		130	25		0.51	0.0	93
6-8-69	17.1	30	215	7.4	75	1.4	7.8	100		136					240
6-9-69	16.1	35	225	8.0	80	1.5	8.1	90		130					240
6-10-69	17.0	30	220	7.5	76	1.3	8.4	95		130					460
6-11-69	16.8	35	225	7.4	75	1.3	8.2	90		134					240
6-12-69	18.2	30	225	6.9	72	1.2	7.9	100		134					460
6-13-69	19.4	30	230	7.7	83	1.4	8.1	100		130		23			9
6-14-69	19.4	20	225	8.0	85	1.3	8.3	100		130	25		0.61	0.0	93
6-15-69	18.5	40	210	7.8	83	1.6	8.2	100		132					1,100
6-16-69	17.8	60	225	7.6	78	1.4	8.0	100		134					460
6-17-69	17.3	25	225	7.1	73	1.5	8.0	100		136					1,100
6-18-69	18.1	25	225	7.5	78	1.2	8.1	100		136					93
6-19-69	18.7	25	225	9.1	96	1.1	8.3	100		140					93
6-20-69	18.8	25	225	8.0	85	1.4	8.3	100		138		25			43
6-21-69	18.1	25	220	8.1	85	1.4	8.3	100		140					93
6-22-69	18.3	25	225	7.6	80	1.3	8.1	100		132					43
6-23-69	18.1	30	220	7.6	80	1.6	8.0	100		136					43
6-24-69	18.1	30	220	6.0	63	1.6	7.9	100		140					240
6-25-69	18.3	25	220	7.4	77	1.4	8.0	100		136					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-26-69	19.0	30	225	7.6	80	0.4	8.1	95		134					43
6-27-69	20.3	30	220	7.5	82	0.9	7.9	90		130		23			93
6-28-69	21.5	25	225	7.6	85	0.6	8.2	95		132	28		0.53	0.0	43
6-29-69	21.4	40	220	8.5	95	0.5	8.0	90		136					75
6-30-69	20.3	30	220	7.5	82	0.9	8.2	95		134					23
June Avg.	18.2	30	223	7.6	79	1.3	8.1	98		134	26	24	0.55	0.0	240
Max.	21.5	60	235	9.1	96	1.9	8.4	100		140	28	25	0.61	0.0	1,100
Min.	16.1	20	210	6.0	63	0.4	7.8	90		130	25	23	0.51	0.0	9
7-1-69	21.1	30	215	7.5	83	0.8	8.2	90		136					21
7-2-69	20.7	25	225	7.1	78	0.9	8.2	95		136					43
7-3-69	21.0	25	225	7.2	80	0.7	8.0	95		140					93
7-4-69	21.2	25	215	7.2	80	0.8	8.2	90		132					93
7-5-69	21.0	1000		7.2	80			70			16		6.0	0.0	
7-6-69	21.0	1000	120	7.2	80			60							
7-7-69	21.0	1000	140	6.4	71	1.0	7.2	70		120					24,000
7-8-69	19.0	230	200	7.2	77	0.3	7.5	90		130					1,100
7-9-69	21.0	200	200	7.5	83	2.7	7.5	90		130		24			2,100
7-10-69	20.9	150	200	6.2	69	0.2	7.4	90		122					1,100
7-11-69	21.3	90	210	5.5	61	0.8	7.3	90		128					1,100
7-12-69	22.2	70	210	6.6	75	0.5	7.6	90		122	29		1.70		460
7-13-69	22.4	70	215	6.5	74	0.5	7.7	95		124					43
7-14-69	22.5	50	220	5.6	64	0.1	7.7	95		128					43
7-15-69	22.5	50	210	5.1	58		7.6	95		128					150
7-16-69	22.4	40	205	5.2	59	0.6	7.6	100		124					43
7-17-69	24.4	40	220	7.5	88	0.5	7.7	95		130					4,600
7-18-69	24.3	50	215	6.5	76	0.3	7.8	85		136					2,400
7-19-69	22.5	30	220	5.5	63	0.3	7.4	90		130	25		1.50	0.00	1,100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
7-20-69	21.0	30	210	5.2	58	0.1	7.7	95		136					210
7-21-69	21.5	30	215	4.5	50	0.1	7.8	90		140					2400
7-22-69	22.1	30	205	2.8	32	0.2	7.3	95		130					240
7-23-69	22.3	130	210	2.4	27	0.7	7.3	100		130					1100
7-24-69	23.3	30	210	5.0	58	0.6	7.4	100		130					93
7-25-69	24.8	30	200	5.8	69	1.0	8.0	100		130		21			93
7-26-69	25.3	30	205	[illegible]	61	0.9	7.8	100		132	25		0.56	0.00	75
7-27-69	25.4	30	220	5.5	66	0.8	7.7	90		136					2400
7-28-69	25.3	30	225	5.4	64	0.4	7.8	100		130					2400
7-29-69	24.6	30	225	5.2	61	1.3	7.6	95		142					460
7-30-69	24.6	30	210	5.5	65	0.8	7.7	100		126					93
7-31-69	24.3	30	225	4.5	53	1.0	7.6	100		130					93
July Avg.	22.5	150	208	5.9	67	0.7	7.7	92		131	24	23	2.44	0.00	1660
Max.	25.4	1000	225	7.5	88	2.7	8.2	100		142	29	24	6.00	0.00	24000
Min.	19.0	25	120	2.4	27	0.1	7.2	60		120	16	21	0.56	0.00	21
8-1-69	24.3	35	225	5.5	65	0.3	7.7	100		132		23			460
8-2-69	24.5	30	210	5.8	69	0.6	7.8	100		126	25		0.76	0.00	240
8-3-69	24.4	30	210	4.5	53	0.4	7.6	100		128					23
8-4-69	24.5	30	205	5.4	64	0.1	7.6	100		128					210
8-5-69	24.5	25	200	5.4	64	0.3	7.6	100		126					43
8-6-69	24.5	30	220	5.5	65	0.5	7.8	95		120					43
8-7-69	24.5	30	215	4.8	57	0.7	7.6	90		130					150
8-8-69	24.4	25	220	6.5	76	0.2	7.8	95		120	25	18	0.70	0.00	23
8-9-69	24.0	30	215	6.6	77										43
8-10-69	23.5	35	210	6.0	69	0.4	7.8	95		120					93
8-11-69	24.0	30	200	6.0	70	0.6	7.9	100		122					23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
8-12-69	23.8	30	200	6.7	78	0.8	8.1	100		120					43
8-13-69	23.5	25	195	6.0	69	0.8	7.7	95		124					93
8-14-69	23.5	20	200	5.6	65	0.6	7.8	100		126					75
8-15-69	24.0	25	200	5.6	65	1.0	7.6	100		124		24			43
8-16-69	24.1	10	200	5.6	66	0.8	7.6	100		124	22		0.56	0.00	
8-17-69	23.8	10	200	5.6	65	0.8	7.6	100		120					4
8-18-69	24.3	15	200	6.2	73	0.7	7.7	100		124					7
8-19-69	25.1	10	200	5.5	65	0.9	8.1	100		124					4
8-20-69	24.0	50	200	5.3	62	0.9	8.0	95		120					9
8-21-69	23.6	40	200	6.0	70	0.9	7.9	100		124					9
8-22-69	23.5	20	200	5.7	66	1.0	7.9	100		126		23			43
8-23-69	23.3	15	200	5.8	67	0.8	7.9	100		124	23		0.37	0.00	43
8-24-69	23.8	15	200	6.5	76	0.8	8.1	100		122					9
8-25-69	23.8	15	200	5.4	63	0.8	8.1	95		122					23
8-26-69	24.8	20	200	6.7	79	0.9	8.3	95		116					43
8-27-69	24.1	20	200	6.8	80	0.8	8.3	95		116					43
8-28-69	24.3	20	200	6.0	70	0.9	8.3	95		120					93
8-29-69	24.5	20	200	6.8	80	0.6	8.2	95		120					43
8-30-69	24.5	30	210	6.5	77	0.6	8.2	90		120	25	21	0.38	0.00	23
8-31-69	24.6	30	220	5.5	65	1.0	8.0	95		126					93
Aug. Avg.	24.1	25	205	5.9	69	0.7	7.9	98		123	24	22	0.55	0.00	68
Max.	25.1	50	225	6.8	80	1.0	8.3	100		132	25	24	0.76	0.00	460
Min.	23.3	10	195	4.5	53	0.1	7.6	90		116	22	18	0.37	0.00	4
9-1-69	24.3	20	210	4.2	49	1.0	7.8	100		126					93
9-2-69	24.7	20	200	5.7	67	1.5		90		126					93
9-3-69	24.1	20	200	5.5	64	1.2	8.1	100		128					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
9-4-69	24.4	20	225	6.0	71	1.0	8.3	95		128					43
9-5-69	24.5	20	225	5.8	68	1.3	8.1	95		122		29			93
9-6-69	24.4	20	225	6.4	75	1.4	8.1	95		126	26		0.61	0.00	43
9-7-69	24.5	20	220	6.0	71	1.1	8.0	95		126					43
9-8-69	23.9	20	220	6.8	79	1.1	8.3	95		128					43
9-9-69	23.2	35	200	7.4	85	1.0	8.3	95		126					4
9-10-69	22.2	50	200	7.8	88	1.0	8.3	95		126					93
9-11-69	21.0	30	210	6.6	73	1.3	8.4	95		126					93
9-12-69	21.3	20	200	7.6	85	1.2	8.3	95		126		27			240
9-13-69	21.2	25	200	8.4	93	0.8	8.3	95		132	25		0.68	0.00	43
9-14-69	21.4	20	200	8.1	90	1.3	8.3	95		122					43
9-15-69	21.5	25	210	8.2	92	1.3	8.2	90		120					460
9-16-69	22.0	30	220	7.5	85	0.9	8.4	95		130					23
9-17-69	21.5	25	220	8.5	95	1.0	8.1	100		132					93
9-18-69	20.5	30	205	7.5	82	1.3	8.2	95		124					460
9-19-69	20.0	30	215	8.0	87	1.1	8.4	90		120					240
9-20-69	19.5	30	215	6.5	70	1.1	8.3	95		132	27	26	0.95	0.00	460
9-21-69	19.4	25	225	6.3	68	1.4	8.3	95		140					240
9-22-69	19.8	30	225	6.2	67	1.0	8.3	100		130					150
9-23-69	20.1	25	230	6.4	70	1.4	8.3	100		136					240
9-24-69	20.4	30	225	6.5	71	1.0	8.3	95		132					1500
9-25-69	19.4	35	210	6.5	70	1.4	8.3	95		124					750
9-26-69	18.8	25	220	6.6	70	1.3	8.3	95		130		26			150
9-27-69	18.5	25	225	6.7	71	1.1	8.2	95		134	25		0.70	0.00	240
9-28-69	18.3	35	225	6.3	66	1.4	8.4	95		130					210
9-29-69	17.7	25	225	6.6	69	1.3	8.2	100		130					21
9-30-69	17.8	20	225	6.5	68	1.3	8.3	100		140					

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
Sep. Avg.	21.3	26	215	6.8	75	1.2	8.2	96		128	26	27	0.74	0.00	213
Max.	24.7	50	230	8.5	95	1.5	8.4	100		140	27	29	0.95	0.00	1500
Min.	17.7	20	200	4.2	49	0.8	7.8	90		120	25	26	0.61	0.00	4
10-1-69	18.0	25	225	7.2	76	1.2	8.3	95		134					43
10-2-69	18.0	20	200	7.0	73	1.5		100		132					23
10-3-69	18.2	20	200	7.5	79	1.6	8.2	100		130					93
10-4-69	18.8	25	200	7.0	75	1.2	8.2	100		136	38	24	1.20	0.00	1500
10-5-69	18.5	35	215	7.6	80	1.1	8.2	95		130					1100
10-6-69	18.5	25	225	7.0	74	1.1	8.0	90		136					460
10-7-69	18.5	25	220	7.0	74	1.6	8.2	100		136					240
10-8-69	17.5	25	220	6.5	68	1.1	7.8	100		140					1100
10-9-69	16.5	35	215	7.5	76	1.3	8.0	90		130					1100
10-10-69	16.9	25	230	7.5	77	1.6		90		130		22			240
10-11-69	17.6	30	220	7.2	75	0.6	8.1	95		128	25		0.59	0.00	150
10-12-69	17.8	30	225	6.8	71	1.3	8.1	95		132					460
10-13-69	17.8	50	225	7.3	76	1.2	8.0	95		130					460
10-14-69	17.7	60	220	7.2	75	1.0	8.0	100		130					460
10-15-69	16.0	50	225	7.5	76	1.1	7.9	95		130					460
10-16-69	16.4	70	220	7.5	76	0.9	8.0	95		130					93
10-17-69	16.5	80	220	7.2	73	1.3	8.1	95		130					93
10-18-69	13.3	65	220	7.4	71	1.1	8.1	95		132	20	22	1.55	0.00	43
10-19-69	13.4	65	210	8.4	80	1.6	8.1	95		136					43
10-20-69	13.6	50	200	8.0	77	1.2	8.2	95		132					23
10-21-69	14.0	50	200	7.8	76	1.4	8.1	100		130					43
10-22-69	13.2	80	200	8.5	81	1.4	8.2	95		128					93
10-23-69	12.1	100	210	8.2	76	1.3	8.2	95		128					240
10-24-69	11.3	60	195	8.5	78	1.4	7.9	95		130		22			240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
10-25-69	12.5	45	205	7.8	73	1.0	8.0	90		130	32		1.00	0.00	240
10-26-69	12.5	40	200	8.0	75	0.7	8.2	95		136					93
10-27-69	12.5	80	205	8.5	80	0.9	8.1	95		134					93
10-28-69	11.5	60	200	8.0	74	1.0	8.2	90		130					240
10-29-69	10.5	50	205	8.5	77	0.9	8.0	85		136					93
10-30-69	10.7	40	200	8.1	73	1.2	8.2	95		132					93
10-31-69	10.9	40	200	8.4	76	0.2	8.2	100		130		23			240
Oct. Avg.	15.2	47	211	8.1	76	1.2	8.1	95		132	29	23	1.09	0.00	319
Max.	18.8	100	230	8.5	81	1.6	8.3	100		140	38	24	1.55	0.00	1500
Min.	10.9	20	195	6.5	68	0.2	7.8	85		128	20	22	0.59	0.00	23
11-1-69	11.1	30	200	8.2	75	0.9	8.4	95		126	27		0.58	0.00	240
11-2-69	11.8	30	210	8.5	79	1.2	8.2	90		130					150
11-3-69	11.5	25	205	8.5	78	0.9	8.4	85		136					43
11-4-69	11.4	30	230	8.4	77	1.0	8.0	95		130					1100
11-5-69	11.0	30	210	8.5	77	0.9	8.2	80		132					460
11-6-69	10.6	30	200	8.1	73	0.5	8.1	100		126					93
11-7-69	10.3	60	210	8.2	74	1.0	8.1	100		142		22			240
11-8-69	11.4	45	200	8.2	75	0.7	8.2	95		128	28		1.00	0.00	240
11-9-69	10.1	40	200	8.1	72	1.0	8.2	100		126					43
11-10-69	10.5	35	210	8.5	77	0.9	8.3	100		126					43
11-11-69	10.2	25	200	8.2	73	0.9	8.3	100		128					93
11-12-69	10.0	30	200	8.6	76	1.0	8.2	100		126					43
11-13-69	9.5	40	220	8.3	72	0.8	8.0	100		140					11000
11-14-69	9.0	25	200	8.1	76	0.6	8.1	95		128		20			110
11-15-69	7.0	65	200	8.1	67	0.7	8.1	95		124	27		1.05	0.00	460
11-16-69	6.0	40	200	8.5	68	1.1	8.2	100		128					4600
11-17-69	6.4	30	210	8.8	71	0.6	8.0	100		128					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-18-69	6.8	30	200	8.7	71	0.8	8.0	100		124					240
11-19-69	7.0	25	200	8.5	70	0.9	8.1	100		126					640
11-20-69	6.2	30	200	9.0	73	0.5	8.1	95		124					240
11-21-69	6.5	30	200	9.5	77	0.6	8.0	90		128		21			23
11-22-69	5.5	30	200	9.2	73	0.5	8.0	90		136	37		1.15	0.00	1100
11-23-69	6.3	25	195	9.3	75	0.6	8.2	100		132					75
11-24-69	6.8	25	220	9.1	75	0.6	7.9	95		130					1500
11-25-69	6.4	25	225	8.9	72	0.6	8.0	100		130					2100
11-26-69	6.7	25	190	9.3	76	0.5	7.9	100		122					150
11-27-69	6.3	25	200	9.3	75	0.9	8.2	95		122					240
*11-28-69	6.8	45	195	9.0	74	0.6	8.1	95		126		22			460
11-30-69	4.9	25	200	9.2	72	0.3	8.1	100		124					150
Nov. Avg.	8.3	33	204	8.7	73	0.7	8.1	96		129	33	21	0.97	0.00	951
Max.	11.8	65	230	9.5	79	1.2	8.4	100		142	45	22	1.15	0.00	11000
Min.	4.7	25	190	8.1	67	0.3	7.9	80		122	27	20	0.58	0.00	23
12-1-69	4.6	30	195	9.1	71	0.7	8.2	95		122					1100
12-2-69	4.4	30	190	9.2	71	0.5	8.0	100		120					240
12-3-69	3.8	50	190	9.4	72	0.5	8.0	100		124					240
12-4-69	4.5	40	190	10.5	81	0.5	8.0	90		120					240
12-5-69	3.8	35	195	10.0	76	0.4	8.2	95		128		23			93
12-6-69	2.2	25	200	10.5	77	0.1	8.0	90		126	36		0.56	0.00	240
12-7-69	3.5	30	195	11.0	83	0.1	8.2	85		128					150
12-8-69	4.0	30	200	10.5	80	0.4	8.0	85		128					2400
12-9-69	2.4	30	275	9.7	71	0.5	7.8	120		206		25			11000
12-10-69	3.0	40	235	10.0	75	0.9	8.0	110		156		30			1500
*11-29-69											45		1.05	0.00	2400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
12-11-69	2.6	35	210	10.0	74	0.7	8.0	100		140		23			460
12-12-69	3.0	40	205	11.0	82	0.7	8.0	95		140					460
12-13-69	1.7	25	200	10.7	77	0.7	8.0	100		130	32		0.58	0.00	240
12-14-69	3.0	60	220	9.8	73	1.1	8.1	100		138					240
12-15-69	3.2	25	220	10.0	75	0.5	8.1	100		136					43
12-16-69	3.0	25	21	9.8	73	0.6	8.0	100		138					72
12-17-69	2.5	35	220	10.3	76	0.8	7.9	100		140					750
12-18-69	2.1	25	225	10.4	76	0.5	8.0	100		140					11000
12-19-69	1.4	40	220	10.3	74	0.3	8.00	100		130		23			43
12-20-69	1.2	35	210	10.4	74	0.3	8.1	100		130	32		0.46	0.00	43
12-21-69	1.1	30	220	10.4	74	0.3	8.0	98		132					240
12-22-69	1.0	30	215	10.2	72	0.2	8.0	96		130					750
12-23-69	0.9	25	200	10.4	73	0.1	8.1	98		132					150
12-24-69	1.5	35	200	10.8	77	0.3	8.0	96		140					240
12-25-69	2.0	30	205	10.5	76	0.7	8.1	85		138					930
12-26-69	2.5	30	200	11.0	81	0.6	8.0	88		140					930
12-27-69	2.0	25	200	11.5	83	0.3	8.0	93		138					240
12-28-69	3.0	30	205	10.5	78	0.2	8.1	90		140					460
12-29-69	1.3	30	200	10.3	73	0.8	8.0	93		130	34	22	0.27	0.00	93
12-30-69	0.9		210	10.5	74	0.5	8.0	100		136					93
12-31-69	0.8	10	215	10.5	74	0.9	7.9	97		132					43
Dec. Avg.	2.4	32	203	10.3	76	0.5	8.0	97		136	34	24	0.47	0.00	1120
Max.	4.6	60	275	11.5	83	1.1	8.2	120		206	36	30	0.58	0.00	11000
Min.	0.8	10	21	9.1	71	0.1	7.8	85		120	32	22	0.27	0.00	43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-2-69	0.9	25	162	14.2	99	0.9	8.3	92		117		20			188
1-3-69	0.9	20	152	14.0	98	0.9	8.1	92		115		21			393
1-6-69	0.9	15	174	14.5	102	1.4	8.3	90		124		22			387
1-7-69	0.9	10	177	14.2	99	1.8	8.1	92		120		22			175
1-8-69		4				0.8	8.3								
1-9-69	0.9	8	172	14.8	104	1.2	8.4	92		123		22			72
1-10-69	0.9	7	180	15.0	105	1.1	8.1	96		123		24			87
1-13-69		3				1.4	8.2								28
1-14-69		3				1.1	8.1								
1-15-69		3				1.1	8.1								5
1-16-69		2				1.2	8.2								5
1-17-69	0.9	2	186	15.0	105	0.9	8.2	92		129		24			5
1-20-69		4				1.1	8.3								570
1-21-69		6				1.1	8.2								
1-22-69		5				1.1	8.2								
1-23-69		4				1.1	8.1								208
1-24-69		4				1.1	8.2								25
1-27-69	0.9	6	182	16.2	113	1.3	8.3	90		134		22			147
1-28-69		5				1.4	8.1								45
1-29-69	0.9	6	198	15.8	110	1.1	8.3	94		127		22			33
1-30-69	1.0	3	188	16.0	113	0.8	8.4	98		126		24			177
1-31-69	1.5	35	187	16.2	115	1.2	8.0	90		126		25			275
Jan. Avg.	0.9	8	178	15.1	105	1.1	8.2	92		124		22			157
Max.	1.5	35	198	16.2	115	1.4	8.4	98		134		25			570
Min.	0.9	2	152	14.0	98	0.8	8.0	90		115		20			5
2-3-69	1.5	75	191	16.0	114	0.8	8.1	86		118		24			1,280
2-4-69	1.2	30	185	16.0	113	1.2	8.2	92		136		24			143

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
2-5-69	1.0	35	180	16.4	115	1.4	8.1	90		133		22			407
2-6-69	1.0	35	182	16.2	103	1.5	8.3	90		135		23			70
2-7-69	1.0	30	186	16.0	111	1.4	8.3	92		136		22			10
2-10-69		10				1.9	8.2								22
2-11-69	1.0	5	173	16.2	103	1.5	8.2	92		127		22			3
2-12-69		6				1.8	8.2								102
2-13-69	1.0	4	190	15.8	110	0.8	8.3	94		136		23			155
2-14-69		7				1.3	8.2								45
2-17-69	0.9	4	182	16.0	110	1.8	8.1	94		140		22			28
2-18-69	0.9	4	179	15.8	109	1.8	8.3	94		148		22			2
2-19-69	0.9	5	192			1.9	8.2	94		144		21			7
2-20-69	0.9	4	198	13.9	98	1.5	8.2	90		140		22			6
2-21-69	0.9	4	205	13.5	94	1.5	8.2	92		143		22			5
2-24-89	1.0	3	175	13.5	94	1.5	8.0	94		130		17			3
2-25-69	1.0	3	170	13.3	93	1.7	8.3	92		132					7
2-26-69	1.0	3	175	13.5	94	1.7	8.2	90		136		22			77
2-27-69		8				2.0	8.2								15
2-28-69	1.0	8	178	13.5	94	2.0	8.2	92		131		22			61
Feb. Avg.	1.0	14	184	15.0	103	1.5	8.2	91		135		22			122
Max.	1.5	75	205	16.4	115	2.0	8.3	94		148		24			1,280
Min.	0.9	3	170	13.3	93	0.8	8.0	86		118		17			2
3-3-69	1.0	9	170	13.5	95	2.2	8.1	90		125					14
3-4-69	1.0	10	170	13.4	95	1.7	8.2	92		127					16
3-5-69	1.0	15	165	13.3	94	2.2	8.2	90		122					17
3-6-69	1.0	10	170	13.5	95	2.0	8.0	90		124					20
3-7-69	1.0	20	170	13.3	94	2.5	8.0	88		122					6
3-10-69	1.0	15	180	13.6	96	2.4	8.0	88		125		23			8

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
3-11-69	1.0	15				2.4	8.0	90		127					12
3-12-69	1.0	20	160	13.6	96	2.2	8.0	88		131		22			4
3-13-69	1.0	15	170	13.4	95	2.4	7.8	88		132					3
3-14-69	1.0	20	175	13.4	95	2.8	7.8	88		136					17
3-17-69	1.0	15	170	13.4	95	3.2	8.0	88		132					1
3-18-69	1.0	15	180	13.2	93	2.7	8.0	88		124					2
3-19-69	1.0	15	175	13.4	95	2.6	7.9	88		125					1
3-20-69	1.0	10	175	13.4	95	2.4	8.0	88		122					11
3-21-69	3.0	35	190	14.3	107	2.1	8.1	88		119		22			26
3-24-69	3.1	6	170	14.4	108	0.7	8.3	90		120		21			15
3-25-69	3.2	15	175	14.3	107	1.0	8.5	90		132		22			5
3-26-69	4.0	35	180	14.2	109	0.7	8.4	90		127		22			88
3-27-69		15				1.0	8.4								39
3-28-69		9				0.6	8.4								89
3-31-69	2.7	30	170	14.5	107	1.3	8.3	90		135		23			31
Mar. Avg.	1.6	16	173	13.7	98	2.0	8.1	89		127		22			20
Max.	4.0	35	190	14.5	109	3.2	8.5	92		136		23			89
Min.	1.0	6	160	13.2	95	0.6	7.8	88		119		21			1
4-1-69	2.5	10	170	13.9	102	1.0	8.4	90		128		22			11
4-2-69	3.1	10	180	14.1	105	0.9	8.2	90		132		21			62
4-3-69		10				1.5	8.4								33
4-4-69	4.0	10	185	13.0	99	1.2	8.4	92		128		21			11
4-7-69	5.0	7	190	13.3	104	1.4	8.3	92		122		22			22
4-8-69						1.8	8.2								47
4-9-69		7				1.7	8.2								130
4-10-69	7.1	10	200	3.2	26	1.4	8.3	90		130		22			70
4-11-69	7.4	55	205	13.6	113	2.2	8.1	92		126		21			145

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
4-14-69	7.5	10	195	13.0	108	2,2	8.2	90		122					81
4-15-69	8.0	10	210	13.2	111	1.5	8.2	90		123					91
4-16-69		7				1.3	8.2								17
4-17-69		7				1.2	8.1								17
4-18-69		25				1.0	8.3								292
4-21-69	8.0	140	220	9.3	78	3.4	8.1	94		134		24			2130
4-22-69	8.0	60	210	11.0	98	2.0	8.2	92		133		24			3027
4-23-69		240				2.9	7.9								3933
4-24-69	8.0	220	195	10.3	87	3.0	8.0	90		124		20			1310
4-25-69	8.1	100	190	12.1	102	2.3	8.1	88		120		19			3250
4-28-69		10				1.5	8.1								55
4-29-69	10.9	15	225	12.3	112	1.4	8.1	92		134		19			255
4-30-69		7				1.6	8.2								129
Apr. Avg.	6.7	44	198	11.7	95	1.7	8.2	91		127		21			687
Max.	10.9	240	225	14.1	112	3.4	8.4	94		134		24			3933
Min.	2.5	7	170	3.2	26	0.9	7.9	88		120		19			11
6-3-69	17.0	25	250	9.4	97	2.2	8.5	92		130		20			94
6-4-69	17.0	30	231	9.2	95	2.6	8.3	90		128		21			377
6-5-69	17.0	15	242	9.4	97	2.4	8.3	94		135		21			72
6-6-69	17.0	20	250	9.0	93	2.6	8.2	92		132		22			740
6-9-69	15.0	25		8.0	79	3.0	8.1								270
6-10-69		10				1.7	8.1								120
6-11-69		8				2.3	8.1								88
6-12-69		7				2.6	8.1								25
6-13-69		10				2.1	8.1								95
6-16-69		20				2.5	8.1								117
6-17-69		6				1.1	8.2								32
6-18-69		6				1.4	8.5								16

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-19-69		6				1.6	8.6								27
6-20-69		4				1.7	8.6								16
6-23-69	16.5	8		7.6	77	1.8	8.3								82
6-24-69		7				1.7	8.3								52
6-25-69		5				1.1	8.3								59
6-26-69		5				1.1	8.3								51
6-27-69		6				2.3	8.5								15
June Avg.	16.5	12	243	8.8	90	2.0	8.3	92		131		21			124
Max.	17.0	30	250	9.4	97	3.0	8.6	94		135		22			740
Min.	15.0	4	231	7.6	77	1.1	8.1	90		128		20			15
7-1-69		5				1.8	8.6								
7-2-69		5				1.9	8.5								20
7-3-69		3				2.7	8.4								24
7-4-69		3				2.9	8.4								
7-5-69		6				2.5	8.2								
7-6-69		9				2.1	8.2								
7-7-69		360				3.9	7.8								
7-8-69		300				4.2	8.3								
7-9-69		85				2.9	8.4								833
7-10-69		35				3.8	8.2								477
7-11-69		30				3.1	8.1								287
7-12-69		20				3.1	8.3								
7-13-69		25				2.6	8.2								
7-14-69		25				2.3	8.2								214
7-15-69		25				2.3	8.1								160
7-16-69		15				3.0	8.2								89
7-17-69		7				2.4	8.3								72

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
7-18-69		9				3.2	8.2								95
7-19-69		8				3.0	7.8								
7-20-69		15				1.7	7.7								
7-21-69		15				1.7	7.8								
7-22-69		10				1.8	7.8								497
7-23-69		20				1.5	7.9								307
7-24-69		10				1.9	8.0								210
7-25-69		9				2.3	8.3								264
7-26-69		3				2.7	8.4								
7-27-69		3				2.6	8.4								
7-28-69		10				2.9	8.6								33
7-29-69		5				3.5	8.6								30
7-30-69		5				3.5	8.4								33
7-31-69		7				2.8	8.3								
July Avg.		35				2.7	8.2								214
Max.		360				4.2	8.6								833
Min.		3				1.5	7.7								20
8-1-69		5				3.7	8.2								
8-2-69		5				2.9	8.1								
8-3-69		4				3.3	8.3								
8-4-69		4				3.5	8.3								33
8-5-69		5				2.6	8.3								62
8-6-69		3				1.8	8.6								157
8-7-69		1		8.8		2.1									18
8-8-69		2				1.7	8.6								42
8-9-69		5				1.6	8.7								
8-10-69		15				1.9	8.7								

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-11-69		5				1.6	8.7								
8-12-69		4				1.2	8.4								15
8-13-69		8				1.3	8.5								55
8-14-69		4				2.5	8.5								44
8-15-69		4				1.5	8.4								26
8-16-69		3				1.1	8.4								28
8-17-69		3				0.7	8.9								
8-18-69		2				0.5	8.8								
8-19-69		3				0.5	8.9								20
8-20-69		15				1.2	8.8								57
8-21-69		10				1.2	8.8								25
8-22-69		4													172
8-23-69		3													95
8-24-69		3													
8-25-69		3													
8-26-69		10													12
8-27-69		4				3.6	8.7								27
8-28-69		3				2.1	8.7								
8-29-69		3				2.6	8.8								64
8-30-69		2				2.2	8.7								50
8-31-69		2				2.7	8.9								260
Aug. Avg.		5		8.8		2.0	8.6								
Max.		15		8.8		3.7	8.9								63
Min.		1		8.8		0.5	8.1								260
															12
9-1-69		2				1.9	8.9								
9-2-69		3	292	8.2		1.8	9.0	88		128		27			19
9-3-69	23.0	4	287	6.5		2.1	8.8	88		127		25			<5

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
9-4-69		4				2.0	8.8								
9-5-69		4				1.4	8.8								35
9-6-69		5				1.8	8.7								10
9-7-69		6				2.0	8.9								
9-8-69		6	230	7.3		1.7	8.8	90		130					
9-9-69		30	295	7.7		1.8	8.8	90		127					15
9-10-69		15	272	7.2		1.3	8.7	90	7	133					107
9-11-69		5	265	9.6		1.2	8.9	90		126					55
9-12-69		4	273	9.9		8.9	9.4		126						15
9-13-69		4				0.5	8.9								65
9-14-69		3				0.7	8.7								
9-15-69		3		7.7		1.1	8.8								
9-16-69		3	279	10.8		1.5	8.9	92		125					
9-17-69		4	290	10.1		1.0	8.8	94		131					15
9-18-69		4	275	10.0		1.4	8.6	90		125					534
9-19-69		6				0.6	8.7								437
9-20-69		10				0.9	8.7								169
9-21-69		5				1.0	8.6								
9-22-69		5	275	9.5		1.0	8.4	90		131					
9-23-69		4	278	9.2		1.2	8.3	90		130					40
9-24-69		10	275	9.2		1.6	8.4	90		132					40
9-25-69		15				1.0	8.5								137
9-26-69		5				0.9	8.4								87
9-27-69		10				1.0	8.5								54
9-28-69		15				0.8	8.3								
9-29-69		9	260	9.1		1.0	8.3	92		127					
9-30-69		5	253	9.2		0.6	8.4	90		131					47
Sept. Avg.	23.0	6	273	9.0		1.5	8.7	90	67	129		26			94
Max.	23.0	30	295	10.8		8.9	9.4	94	126	133		27			534
Min.	23.0	2	230	6.5		0.5	8.3	88	7	125		25			5

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
10-1-69		10	248	3.6		1.1	8.4	92		127					
10-2-69		3	260	9.1		0.9	8.5	90		130					57
10-3-69		5				0.7	8.3								38
10-4-69		4				0.5									
10-5-69		10				1.2	8.4								
10-6-69		5	242	8.9		1.1	8.5	92		126					94
10-7-69		4	260	8.7		0.8	8.4	90		133					102
10-8-69		4	250	8.9		1.4	8.4	90		130					450
10-9-69		6	250	9.0		1.7	8.2	90		128					233
10-10-69		4				1.2	8.3								84
10-11-69		2				0.8	8.3								
10-12-69		15				0.9	8.3								
10-13-69		7				0.9	8.3								
10-14-69		160	247	8.9		2.0	8.3	92		130					417
10-15-69		55		9.0		0.8	8.3	90		127					107
10-16-69		7	248	2.7		1.0	8.3	94		126					80
10-17-69		100				1.0	8.2								
10-18-69		35				0.7	8.3								
10-19-69		8				1.5	8.3								
10-20-69		9	221	11.2		0.7	8.3	94		128					33
10-21-69		85	225	10.2		0.9	8.3	92		132					20
10-22-69		130	230	10.7		1.0	8.2	94		125					203
10-23-69		120	230			1.2	8.3	94		130					510
10-24-69		60				0.7	8.3								927
10-25-69		15				0.2	8.2								
10-26-69		10				0.3	8.1								
10-27-69		50	213	10.9		1.3	8.3	92		126					250
10-28-69		35	212	12.2		0.1	8.3	90		120					30
10-29-69		20	215			0.5	8.3	90		122					62

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Aik.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
10-30-69		25	205	12.8		0.1	8.3	94		123					270
10-31-69		10				0.7	8.3								
Oct. Avg.		33	235	9.0		0.9	8.3	92		127					698
Max.		160	260	12.8		2.0	8.5	94		133					4014
Min.		2	205	2.7		0.1	8.1	90		120					18
11-1-69		5				0.8	8.4								
11-2-69		10				0.2	8.4								
11-3-69		8	218	11.9		0.4	8.4	92		121					230
11-4-69		5	213	12.2		0.2	8.5	94		123					20
11-5-69		20	200	12.5		0.2	8.4	90		122					597
11-6-69		45	211	12.2		0.5	8.4	96		127					450
11-7-69		15				1.5	8.4								330
11-8-69		30				0.6	8.3								
11-9-69		20				1.0	8.3								
11-10-69		20	205	11.9		1.0	8.4	92		117					18
11-11-69		9				1.0	8.4								
11-12-69		5	205	12.5		1.0	8.3	90		120					163
11-13-69		55	200	13.4		0.3	8.3	92		125					503
11-14-69		15				1.0	8.3								363
11-15-69		25				0.2	8.1								
11-16-69		15				1.5	8.3								
11-17-69		7	195	13.2		0.7	8.3	92		118					174
11-18-69		6	200	12.9		1.3	8.4	92		122					78
11-19-69		8	198	13.5		1.3	8.5	92		123					4014
11-20-69		90	195	13.6		0.8	8.3	92		125					3150
11-21-69		80				0.9	8.2								857

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-22-69		30				0.3	8.2								
11-23-69		15				0.6	8.3								
11-24-69		15				0.1	8.3								535
11-25-69		8	162	12.9		1.0	8.3	87		112					178
11-26-69		25				1.1	8.3								288
11-27-69		10				0.8	8.3								
11-28-69		10				0.6	8.4								30
11-29-69		20				0.4	8.3								
11-30-69		20				0.9	8.3								
Nov. Avg.		21	200	12.7		0.7	8.3	92		121					698
Max.		90	218	13.6		1.5	8.5	96		127					4014
Min.		5	162	11.9		0.1	8.1	87		112					18
12-1-69		55				1.1	8.2								
12-2-69		75	180	13.4		0.9	8.3	94		128					113
12-3-69		35	160	13.7		0.8	8.3	92		120					193
12-4-69		100				1.3	8.3								124
12-5-69		75	168	14.2		0.8	8.2	90		115					123
12-6-69		15				0.6	8.3								
12-7-69		20				0.5	8.4								
12-8-69		15	172	14.7		0.4	8.5	92		120					15
12-9-69		7	178	17.1		0.4	8.4	92		135					20
12-10-69		7	185	16.7		0.4	8.3	94		125					345
12-11-69		40				0.3	8.3								920
12-12-69		25	178	15.8		0.2	8.4	94		121					430
12-13-69		20				0.6	8.3								
12-14-69		10				0.5	8.4								
12-15-69		70	202	16.1		1.1	8.4	92		138					1587

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
12-16-69		35	182	16.3		1.0	8.2	90		142					320
12-17-69		15	180	15.5		0.8	8.2	92		130					25
12-18-69		15				0.8	8.3								357
12-19-69		25				1.0	8.3								980
12-20-69		100				0.5	8.2								
12-21-69		10				0.6	8.3								
12-22-69		20	178	15.8		0.8	8.3	94		128					98
12-23-69		25	177	15.5		1.0	8.4	94		130					75
12-24-69		35	175	15.4		1.0	8.3	90		130					130
12-25-69		25				1.0	8.2								
12-26-69		15				0.5	8.1								48
12-27-69		40				0.9	8.2								
12-28-69		15				0.6	8.3								
12-29-69		15	170	16.4		0.5	8.2	90		129					10
12-30-69		10	178	14.1		0.3	8.4	90		132					66
12-31-69		85	172	15.8		1.6	8.4	94		138					1413
Dec. Avg.		34	177	15.4		0.7	8.3	92		129					352
Max.		100	202	17.1		1.6	8.5	94		142					1587
Min.		7	160	13.4		0.2	8.1	90		115					10

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Data	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
1-1-69	1.5	40	1				0.8	8.1	93								
1-2-69	1.5	30	1	169	13.8	98	1.9	8.2	82	157	114					1,500	184
1-3-69	1.7	30	1	169	13.7	97	2.2	8.0	93	177	118					2,300	164
1-4-69	2.2	25	1		13.7	100	1.7	8.1	94		116					800	
1-5-69	1.5	20	1				1.9	8.1	94								
1-6-69	1.7	15	1	179	14.0	100	2.1	8.1	96	158	124					320	208
1-7-69	2.0	15	1	176	13.6	98	1.7	8.1	94	180	122	30	26	0.30	0.0	1,500	220
1-8-69	1.6	5	1	189	13.9	100	1.3	8.1	98	182	128					97	180
1-9-69	1.5	3	1	181	13.8	98	0.6	8.1	103	192	128					30	124
1-10-69	1.7	8	1	181	12.9	93	1.9	8.0	92	198	128					270	200
1-11-69	1.7	5	1		13.8	99	1.4	8.3	104		128					55	
1-12-69	1.7	4	1				1.5	8.2	105								
1-13-69	1.6	3	1	190	13.3	95	1.1	8.1	103	189	126					21	96
1-14-69	1.5	2	1	182	13.3	95	1.1	8.1	101	193	128	28	27	0.08		12	24
1-15-69	1.5	2	1	168	13.9	100	0.8	8.2	102	209	126					14	80
1-16-69	1.6	2	1	182	13.9	100	0.8	8.2	105	195	128					14	104
1-17-69	1.8	2	1	190	14.3	102	0.8	8.2	99	191	132					8	88
1-18-69	1.9	2	0		13.9	101	0.8	8.1	106		130					130	
1-19-69	1.9	1	1				0.7	8.1	106								
1-20-69	2.3	2	2	181	13.9	101	0.6	8.1	100	199	128					13	156
1-21-69	1.9	6	1	165	14.3	103	0.8	8.2	102	212	130	28	27	0.10	0.0	340	76
1-22-69	2.1	7	1	181	14.1	103	0.8	8.2	95	191	130					100	260
1-23-69	2.5	3	1	182	13.9	102	0.9	8.2	101	192	128					50	224
1-24-69	3.2	60	2	197	13.9	104	2.8	8.1	101	196	140					230	184
1-25-69	2.3	40	1		13.8	101	0.5	8.2	96		130					380	
1-26-69	2.0	20	1				2.2	8.1	92								
1-27-69	1.7	10	1	189	13.8	99	2.1	8.1	91	185	124					460	216
1-28-69	1.5	7	1	189	13.5	96	0.9	8.1	91	185	134	31	26	0.17		190	280
1-29-69	1.8	7	1	181	13.8	99	1.0	8.1	92	177	134					70	240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
1-30-69	2.1	8	1	191	14.1	102	1.1	8.1	92	204	134					66	220
1-31-69	3.0	30	1	190	14.0	104	0.8	8.2	91	202	128					1,800	420
Jan. Avg.	1.9	13	1	182	13.8	99	1.2	8.1	91	186	127	29	26	0.16	0.0	414	179
Max.	3.2	60	2	197	14.3	104	2.8	8.2	106	212	140	31	27	0.30	0.0	2,300	420
Min.	1.5	1	0	168	12.9	93	0.5	8.0	82	130	114	28	26	0.08	0.0	8	24
2-1-69	3.0	35	1		13.9	103	0.8	8.2	87		132					1,600	
2-2-69	2.8	45	2				0.8	8.1	85								
2-3-69	2.9	80	1	200	13.8	102	1.0	8.1	88	203	130					1,100	460
2-4-69	2.4	55	1	192	14.1	103	0.9	8.1	94	192	132	31	26	0.42	0.0	330	340
2-5-69	1.7	35	1	181	13.9	99	1.1	8.1	92	191	132					550	536
2-6-69	1.6	30	1	187	13.5	96	1.4	8.1	90	190	132					200	532
2-7-69	1.5	20	0	178	14.1	100	1.1	8.1	93	197	128					400	408
2-8-69	1.7	15	0		14.2	102	1.3	8.2	89		130					200	
2-9-69	1.7	4	0				0.6	8.1	92								
2-10-69	1.6	8	0	171	13.6	98	0.8	8.2	90	190	124					140	328
2-11-69	2.1	9	1	190	13.8	100	2.4	8.1	91	196	132	31	25	0.21		250	140
2-12-69	2.0	9	1	180	13.6	99	2.0	8.1	90	181	128					93	316
2-13-69	1.7	9	1	181	13.8	99	1.4	8.2	92	188	130					53	284
2-14-69	1.5	6	0	172	13.4	96	1.0	8.2	89	204	130					37	228
2-15-69	1.5	8	1		13.8	98	0.7	8.2	90		128					55	
2-16-69	1.5	7	0				1.0	8.1	89								
2-17-69	1.6	6	1	191	13.5	97	1.4	8.2	90	226	130					31	276
2-18-69	1.8	5	1	192	13.9	100	1.6	8.1	91	186	138	40	23	0.13	0.0	16	456
2-19-69	1.8	5	0	191	13.7	98	1.3	8.1	92	202	140					21	408
2-20-69	1.9	5	0	198	13.5	99	1.5	8.1	92	205						19	512
2-21-69	1.8	5	1	190	13.7	98	1.3	8.1	96	192	136					11	424
2-22-69	1.8	5	0		13.8	99	1.3	8.1	89		144					6	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
2-23-69	2.1	5	0				1.7	8.1	90								
2-24-69	2.2	5	1	189	13.7	100	3.4	8.1	91	193	136					19	488
2-25-69	2.1	5	1	192	13.7	100	2.8	8.0	90	181	140	39	23	0.12		10	756
2-26-69	1.9	5	1	189	13.5	99	1.4	8.1	93	182	132					28	476
2-27-69	1.8	8	1	182	14.1	101	1.9	8.1	90	184						55	556
2-28-69	1.7	9	1	181	13.8	99	1.7	8.1	92	162	132					51	248
Feb. Avg.	1.9	16	1	186	13.7	99	1.4	8.1	90	192	132	35	24	0.22	0.0	219	408
Max.	3.0	55	2	200	14.2	103	3.4	8.2	96	226	144	40	26	0.42	0.0	1,600	756
Min.	1.5	5	0	171	13.4	96	0.6	8.0	85	162	124	31	23	0.12	0.0	6	140
3-1-69	1.6	10	1		13.8	98	2.1	8.0	92		132					55	
3-2-69	1.7	10	1				2.4	8.1	90								
3-3-69	1.9	10	1	180	13.4	96	1.8	8.0	88	160	124					58	772
3-4-69	1.9	10	1	170	13.3	96	1.7	8.0	92	180	124	28	22	0.20	0.0	23	668
3-5-69	1.9	10	1	175	13.2	95	1.6	8.0	88	176						31	756
3-6-69	1.9	20	1	170	14.1	101	2.8	7.9	89	177	122					20	612
3-7-69	2.0	15	1	171	14.2	103	2.4	8.1	85	163						10	1,224
3-8-69	2.0	25	1		13.1	94	3.6	7.9	87							30	
3-9-69	1.9	15	1				2.4	7.9	84								
3-10-69	2.0	15	1	175	13.8	98	2.2	8.0	84	186	116					18	792
3-11-69	1.7	20	1	170	12.8	90	2.5	7.9	85	190	124	30	22	0.30	0.0	23	604
3-12-69	3.0	15	1	180	12.6	93	3.7	7.9	85		128					11	384
3-13-69	1.7	15	2	199	12.1	91	2.5	7.9	87	205	124					20	296
3-14-69	2.1	15	2	180	12.5	90	4.7	7.9	88	224	128					18	680
3-15-69	1.9	15	1		12.6	90	3.9	7.9	89							21	
3-16-69	2.0	20	1				2.4	7.9	86								
3-17-69	1.9	15	1	179	13.2	95	3.1	7.8	91	177	118					15	460
3-18-69	1.9	15	1	175	12.4	88	3.8	8.0	85	172	120					29	560

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
3-19-69	2.1	15	1	171	12.6	90	3.1	7.9	87	183	122	29	23	0.28	0.0	17	392
3-20-69	2.4	15	1	171	12.3	89	3.0	8.0	88	181	118					21	372
3-21-69	3.5	50	1	179	13.3	98	1.9	8.0	86	183	118					80	928
3-22-69	2.5	45	1		13.8	100	1.5	8.1	84		126					160	
3-23-69	3.9	25	1				1.0	8.1	79								
3-24-69	4.5	10	1	180	13.8	105	0.9	8.3	85	148	112					63	1,904
3-25-69	4.5	8	1	182	13.8	105	0.7	8.4	88	162	122	26	24	0.14		20	1,572
3-26-69	4.6	25	2	182	13.4	103	0.7	8.2	84	184	120					270	1,876
3-27-69	4.3	15	1	180	13.6	108	0.6	8.4	87	156	120					630	1,932
3-28-69	4.1	9	1	190	13.5	103	0.5	8.3	89	182	124					170	1,040
3-29-69	4.2	25	0		13.8	105	0.6	8.2	88							620	
3-30-69	3.8	20	1				0.6	8.2	89								
3-31-69	3.5	40	1	189	13.6	102	0.8	8.2	88	170	130					810	1,156
Mar. Avg.	2.6	18	1	178	13.2	97	2.1	8.0	87	178	122	28	23	0.23	0.0	125	904
Max.	4.6	50	2	199	14.2	105	4.7	8.4	92	224	132	30	24	0.30	0.0	810	1,932
Min.	1.6	8	0	170	12.1	88	0.5	7.8	79	148	112	26	24	0.14	0.0	10	296
4-1-69	3.6	20	1	190	13.1	98	1.2	8.2	84	178	126					330	1,120
4-2-69	4.3	15	1	187	13.5	103	0.9	8.3	85	183	124	29	23	0.25	0.0	170	820
4-3-69	4.2	10	1	198	13.4	103	0.7	8.3	88	145	120					68	952
4-4-69	4.9	5	1		13.4	104	0.8	8.0	86		120					65	
4-5-69	6.0	8	1		13.4	106	1.3	8.1	91							70	
4-6-69	6.0	10					1.0	8.1	86								
4-7-69	6.0	7	1	180	12.8	102	1.1	8.2	87	153	112					200	640
4-8-69	6.0	40	1	182	12.6	100	0.8	8.2	84	185	120	27	23	0.51		140	452
4-9-69	6.5	10	1	189	13.5	108	0.7	8.2	88	179	118					70	288
4-10-69	8.0	10	1	190	12.1	101	0.9	8.2	85	147	120					180	488
4-11-69	8.8	20	1	201	11.8	100	1.2	8.1	82	165	122					280	404

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
4-12-69	7.5	15	1		12.3	102	1.3	8.1	85		118					170	
4-13-69	8.0	15	1				1.5	8.1	88								
4-14-69	7.8	10	1	200	13.5	112	1.4	8.1	82	164	116					110	212
4-15-69	8.6	10	1	209	11.7	99	1.4	8.1	86	176	122					64	264
4-16-69	9.6	10	1	203	11.7	102	1.6	8.1	84	168	122	32	21	0.21	0.0	29	264
4-17-69	9.6	9	1	200	11.9	103	1.3	8.1	84	165	118					43	288
4-18-69	9.8	55	2	199	13.2	115	1.9	8.1	83	169	114		19			44	272
4-19-69	8.1	250	1		11.1	93	3.1	8.0	86		122					12,000	
4-20-69	8.4	150	1				3.3	8.0	88								
4-21-69	9.0	135	1	231	10.8	93	3.7	7.9	83	177	128		23			20,000	216
4-22-69	9.1	75	1	219	10.8	93	2.1	7.9	87	171	126	28	25	0.86		1,000	200
4-23-69	9.3	200	1	210	11.3	98	2.1	7.9	82	179	124		20			7,000	244
4-24-69	9.2	160	1	210	11.1	96	1.9	8.0	81	157	120					5,000	280
4-25-69	9.8	70	1	219	11.1	97	1.4	8.1	82	195	118					850	192
4-26-69	10.5	40	1	187	11.2	99	1.3	8.0	84		122					1,100	
4-27-69	12.2	30	1				1.2	8.1	88								
4-28-69	12.4	15	1	225	10.9	101	1.2	8.0	88	194	126					270	192
4-29-69	11.9	15	1	231	10.9	100	1.4	8.1	86	235	132	34	20	0.30	0.0	180	176
4-30-69	11.7	10	1	220	10.9	99	1.3	8.0	90	155	132					140	188
Apr. Avg.	8.2	48	1	204	12.1	101	1.5	8.1	85	173	122	30	22	0.43	0.0	1,907	385
Max.	12.4	250	2	231	13.5	115	3.7	8.3	91	235	132	34	25	0.86	0.0	20,000	1,120
Min.	3.6	5	1	180	10.8	93	0.7	7.9	81	145	112	27	19	0.21	0.0	29	176
5-1-69	9.6	4	1	203	11.8	103	0.6	8.2	82	141	120					130	160
5-2-69	9.9	5	1	207	11.2	98	0.9	8.2	88	167	122					45	204
5-3-69	11.0	5	1	212	11.2	100	0.6	8.2	89		122					49	
5-4-69	11.4	4	1				0.8	8.2	86								
5-5-69	11.1	4	1	211	11.6	104	0.6	8.2	88	158	124					39	300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
5-6-69	11.0	9	1	220	11.5	103	0.9	8.1	88	156	120	25	22	0.17		61	284
5-7-69	11.0	7	1	218	10.7	96	0.8	8.2	89	143	124					100	476
5-8-69	11.7	9	1	225	10.9	99	0.8	8.2	89	175	124					70	360
5-9-69	12.0	130	1	220	11.1	102	0.8	8.3	88	150	124					660	480
5-10-69	12.4	95	1	230	10.4	96	1.0	8.3	89		132					3,700	
5-11-69	12.6	90	1				1.0	8.3	89								
5-12-69	12.7	75	1	222	10.0	93	1.1	8.2	87	159	128					3,200	636
5-13-69	13.3	20	1	240	10.1	96	1.0	8.4	91	173	128	29	20	0.36	0.0	510	620
5-14-69	13.9	15	1	240	10.8	104	1.0	8.6	91	153	132					550	1,152
5-15-69	13.3	10	1	250	9.9	94	1.0	8.4	90	188	134					510	952
5-16-69	13.8	9	1	231	10.1	97	0.9	8.4	92	165	128					200	972
5-17-69	14.6	6	1	250	11.1	98	0.8	8.2	94		130					110	
5-18-69	14.6	6	1	250			1.0	8.7	93								
5-19-69	14.9	8	1	250	9.9	97	1.0	8.6	88	244	134					2,100	1,016
5-20-69	15.2	6	1	250	11.2	110	1.2	8.7	86	176	128	34	20	0.13		1,500	528
5-21-69	14.7	85	1	240	10.2	99	1.7	8.4	86	163	124					10,000	436
5-22-69	12.7	20	1	230	8.7	81	1.0	8.1	91	163	128					1,600	236
5-23-69	12.0	15	1	225	8.4	77	1.3	8.0	91	180	126					1,100	212
5-24-69	13.1	15	1		8.6	81	1.6	8.1	89		132					610	
5-25-69	13.5	6	1				1.4	8.2	91								
5-26-69	13.7	15	1	250	9.9	95	1.3	8.2	87	200	128					440	96
5-27-69	13.7	10	1	240	9.0	85	1.2	8.2	88	206	130	28	23	0.23	0.0	480	144
5-28-69	14.3	9	1	239	9.4	90	1.1	8.2	88	204	128					340	
5-29-69	16.5	8	0	249	9.9	100	1.1	8.4	90	156	124					300	120
5-30-69	16.0	9	1				1.4	8.4	86								
5-31-69	16.0	8	1	225	9.0	90	1.1	8.3	88		124					950	
May Avg.	13.1	23	1	232	10.3	96	1.0	8.3	89	172	127	29	21	0.22	0.0	1,129	469
Max.	16.5	130	1	250	11.8	110	1.7	8.7	94	244	134	34	23	0.36	0.0	10,000	1,152
Min.	9.6	4	0	203	8.4	77	0.6	8.0	82	141	120	25	20	0.13	0.0	39	96

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
6-1-69	15.8	9	1				1.6	8.2	90								
6-2-69	17.2	15	1	250	8.7	90	1.3	8.3	89	156	126					1,800	80
6-3-69	17.5	35	1	265	8.2	85	1.8	8.3	86	201	128	30	21	0.75		1,600	90
6-4-69	16.7	25	1	258	8.0	81	2.0	8.3	91	172	130					800	68
6-5-69	17.1	20	1	260	8.0	82	1.6	8.3	91	187	130					710	32
6-6-69	17.3	15	1	260	7.8	80	1.2	8.2	90	187	128					330	44
6-7-69	16.8	10	1	250	7.6	77	1.6	8.2	91		138					240	
6-8-69	16.4	9	1				1.8	8.2	92								
6-9-69	16.8	30	1	248	7.6	77	2.1	8.1	90	191	132	28	22	0.63	0.0	860	136
6-10-69	15.9	10	1	243	7.5	75	2.4	8.1	91	189	124					330	88
6-11-69	16.4	7	1	245	7.9	80	1.7	8.1	86	177	122					310	56
6-12-69	18.2	8	1	231	7.9	83	2.0	8.1	88	226	126					100	80
6-13-69	18.9	9	1	270	7.9	85	1.7	8.1	91		126					43	88
6-14-69	18.0	7	1	260	8.1	85	1.6	8.1	92		130					230	
6-15-69	17.8	10	1				2.3	8.0	92								
6-16-69	17.4	5	1		7.7	80	1.5	8.0	90		130					430	128
6-17-69	17.8	6	1	240	7.8	80	1.6	8.1	86	196	126	27	24	0.23		180	108
6-18-69	18.4	5	1	262	8.8	93	1.4	8.3	94		126					150	132
6-19-69	18.6	7	1	260	8.7	93	1.4	8.5	95	166	126					80	120
6-20-69	18.7	6	1		8.7	92	1.5	8.4	92		130					490	140
6-21-69	18.0	7	1		7.5	78	1.7	8.2	92		126					500	
6-22-69	17.8	6	1				1.5	8.2	91		122						
6-23-69	17.8	6	1	240	7.7	80	1.3	8.1	91		126					160	
6-24-69	17.9	6	1	255	8.1	84	1.1	8.1	91	180	130	29	24	0.11	0.0	120	156
6-25-69	18.0	5	1	255	8.3	87	1.5	8.1	91		124					470	166
6-26-69	18.7	4	1	261	8.3	88	1.3	8.2	92	165	124					280	252
6-27-69	20.1	5	1	268	9.9	108	1.3	8.5	90							400	176
6-28-69	20.9	6	1	271	9.2	101	0.7	8.5	89		126					830	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
6-29-69	20.9	4	1	280			1.2	8.5	93								
6-30-69	20.9	5	1	280	8.8	98	1.3	8.4	94		128					88	148
June Avg.	18.0	10	1	257	8.2	86	1.6	8.2	91	184	127	29	23	0.43	0.0	461	114
Max.	20.9	35	1	280	9.9	108	2.4	8.5	96	226	138	30	24	0.75	0.0	1,800	252
Min.	15.8	4	1	231	7.5	75	0.7	8.0	86	156	122	27	21	0.11	0.0	43	32
7-1-69	20.8	6	1	278	9.0	99	1.1	8.5	93	178	130	32	21	0.14	0.0	330	
7-2-69	20.6	5	1	275	8.7	96	1.2	8.5	93		128					280	
7-3-69	20.9	3	1	278			0.6	8.5	92		130					2,000	
7-4-69	20.8	3	1				1.7	8.3	90								
7-5-69	21.2	7	1		6.6	73	2.0	8.2	92		122					1,000	
7-6-69	21.4	250	2				4.4	7.6	84							12,000	
7-7-69	20.8	310	5	228	5.7	63	4.2	7.7	66	162	110	13	17	3.70	0.0	59,000	
7-8-69	20.6	180	3		6.1	67	3.0	7.8	82		114					14,000	
7-9-69	20.6	65	1	255	6.2	68	2.8	7.7	79		118					7,500	
7-10-69	20.9	45	1	258	5.8	64	2.5	7.7	84		124					2,800	
7-11-69	22.2	25	1	260	6.1	69	2.9	7.8	83		122					4,200	
7-12-69	22.4	30	1	270	6.1	69	2.5	7.7	83		118					7,000	
7-13-69	22.4	20	1	279			2.4	7.8	88								
7-14-69	23.1	20	1	278	6.5	75	2.5	7.8	87		120					1,900	180
7-15-69	22.7	20	1	278	6.3	72	1.9	7.8	85	211	124	31	21	0.35		1,900	200
7-16-69	23.1	15	1	280	6.4	74	2.1	7.8	86		126					630	176
7-17-69	24.7	7	2	278	10.0	118	2.0	8.6	85	189	114					280	196
7-18-69	25.1	8	1		7.1	84	3.3	8.3	87		120					3,700	180
7-19-69	23.2	7	1	270	2.2	25	2.4	7.7	81		128					1,800	176
7-20-69	21.9	9	0	278	1.6	18	1.5	7.5	91								
7-21-69	21.7	9	0	272	1.7	19	1.2	7.5	90							5,800	
7-22-69	21.4	15	1	273	0.8	9	1.3	7.5	93	177	122	28	20	0.22	0.0	1,100	44

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
7-23-69	21.4	20	1		1.7	19	1.2	7.5	93		128	27				870	168
7-24-69	22.6	10	1	278	5.1	58	1.5	7.8	90	196	130					220	388
7-25-69	24.0	8	1	280	9.2	107	1.9	8.6	90		122					1,700	278
7-26-69	25.3	4	1	285	7.1	85	1.8	8.2	89		122					850	
7-27-69	25.7	4	1	290	6.3	76	2.4	8.0	88								
7-28-69	25.7	6	1	289	5.5	66	2.5	7.9	89		124					6,500	228
7-29-69	25.1	6	1	287	5.7	68	1.9	8.0	89	195	122	30	21	0.12		6,300	224
7-30-69	25.2	5	1	285	5.2	62	2.1	7.9	90		122					1,700	172
7-31-69	25.1	7	0	288	4.6	55	2.6	7.8	88		122					9,600	80
July Avg.	22.7	36	1	275	5.7	65	2.2	7.9	87	187	122	27	20	0.90	0.0	5,739	192
Max.	25.7	310	5	290	10.0	118	4.4	8.6	93	211	130	32	21	3.70	0.0	59,000	388
Min.	20.6	3	0	228	0.8	9	0.6	7.5	66	162	110	13	17	0.12	0.0	220	44
8-1-69	25.4	5	1	289	5.3	63	2.3	7.9	88	208	118					6,600	260
8-2-69	25.3	4	1	288	5.8	69	2.1	7.9	90		120					17,000	148
8-3-69	25.2	3	0				2.2	7.9	88								
8-4-69	25.5	4	0	289	5.8	69	2.1	7.9	90		122					5,000	172
8-5-69	25.3	3	1	285	6.9	82	2.2	8.1	89	209	120					18,000	204
8-6-69	25.1	4	1	282	8.6	102	2.0	7.9	90		124					930	232
8-7-69	25.3	3	1	283	8.0	96	1.7	8.3	88	204	122	29	22	0.08	0.0	500	220
8-8-69	25.3	7	2	280	7.2	86	2.5	8.4	87		122					570	160
8-9-69	25.1	6	1	290	7.6	90	1.5	8.3	86		124					400	
8-10-69	24.6	7	2	289			1.5	8.3	90								
8-11-69	24.8	5	3	287	7.1	84	1.2	8.4	90		114					850	212
8-12-69	24.7	6	3	282	7.5	89	1.5	8.5	91	201	126	27	22	0.09		580	188
8-13-69	24.2	6	2	285	6.7	79	1.7	8.3	87		124					610	156
8-14-69	24.4	6	2	292	6.2	73	1.7	8.2	88	220	128					1,000	140
8-15-69	24.7	3	2	292	7.1	84	1.5	8.4	92		126					1,700	140
8-16-69	24.6	3	1	267	6.3	74	1.3	8.3	89		128					720	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
8-17-69	24.4	2	2	261			1.3	8.4	87								
8-18-69	24.7	3	1	292	7.5	89	1.4	8.5	90		128					1,100	208
8-19-69	25.2	3	1	300	7.5	89	1.4	8.7	91	199	126					1,500	188
8-20-69	24.7	6	1	300	7.6	90	1.7	8.6	91		126	29	26	0.12	0.0	1,300	220
8-21-69	24.2	5	1	300	6.5	76	1.7	8.5	92	219	128					1,900	244
8-22-69	23.8	4	1	300	7.3	85	1.4	8.5	91		128					2,000	316
8-23-69	23.8	3	1	298	7.6	88	1.3	8.5	92		128					1,600	
8-24-69	24.1	2	1	301			1.6	8.5	93								
8-25-69	25.0	2	1	304	8.7	103	1.2	8.8	94		126					1,200	196
8-26-69	25.2	2	1	300	7.2	86	1.3	8.8	93	169	130	25	28	0.09		720	192
8-27-69	24.8	2	1	302	7.0	83	1.7	8.6	93		126					870	172
8-28-69	24.8	2	1	300	6.3	75	2.2	8.6	92	200	128						220
8-29-69	24.8	3	0	302	6.1	72	2.0	8.5	91		126						252
8-30-69	25.0	2	1	301	7.0	83	1.7	8.4	91		124						
8-31-69	24.9	2	1	305			1.4	8.6	88								
Aug. Avg.	24.8	4	1	292	7.0	83	1.7	8.4	90	203	125	28	25	0.10	0.0	2,898	202
Max.	25.5	7	3	305	8.7	103	2.5	8.8	94	220	130	29	28	0.12	0.0	18,000	316
Min.	23.8	2	0	261	5.3	63	1.2	7.9	86	169	114	25	22	0.08	0.0	400	140
9-1-69	25.2	2	1	308			1.2	8.6	90								
9-2-69	25.4	2	1	303	7.3	87	1.4	8.7	87		124					320	200
9-3-69	25.0	3	1	305	6.5	77	1.5	8.5	89	190	124	26	28	0.13		210	148
9-4-69	25.0	2	1	305	6.3	75	1.4	8.5	89		126					140	
9-5-69	25.0	3	1	308	6.5	77	1.0	8.5	89		126					93	
9-6-69	24.9	4	1	305	6.3	75	1.3	8.5	87		126					110	
9-7-69	25.3	3	1	308			1.4	8.5	88								
9-8-69	24.9	3	0	304	7.0	83	1.1	8.5	89		128					210	240
9-9-69	24.3	15	1	300	7.3	86	1.3	8.6	89	182	126	30	28	0.11		610	556

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
9-10-69	22.9	15	1	292	7.3	84	1.4	8.5	93		126					680	586
9-11-69	22.6	4	1	285	7.9	90	1.4	8.6	91		126					350	592
9-12-69	22.6	4	1	290	7.6	87	1.6	8.5	90		126					1,220	520
9-13-69	22.4	4	1	280	7.8	89	1.4	8.5	91		122					830	
9-14-69	22.5	3	1	281			1.3	8.5	91								
9-15-69	22.5	4	1	280	8.3	94	1.4	8.5	91		126					5,500	512
9-16-69	22.6	3	0	290	8.1	92	1.4	8.6	88	194	124					7,700	508
9-17-69	22.4	15	1	295	7.7	88	1.7	8.4	91		124					4,100	548
9-18-69	21.6	15	1	290	7.7	86	1.3	8.3	91	199	126	29	26	0.34	0.0	4,700	516
9-19-69	21.4	6	1	295	7.4	83	1.5	8.3	92		126					1,300	396
9-20-69	20.7	5	1	290	7.1	78	1.6	8.2	90		130					330	
9-21-69	20.6	3	1	290			1.7	8.2	89								
9-22-69	20.7	4	1	290	7.2	79	1.8	8.2	94		126					900	424
9-23-69	20.7	4	1	298	7.2	79	2.0	8.2	95	205	130					2,100	388
9-24-69	21.0	10	1	272	8.2	91	1.4	8.3	93		130					2,400	648
9-25-69	20.6	6	1	282	7.2	80	1.6	8.2	91	208	128					2,400	400
9-26-69	20.4	6	1	290	6.9	76	1.5	8.1	91		130					1,100	408
9-27-69	20.2	7	1	280	7.9	86	0.9	8.1	92		128					600	
9-28-69	19.7	8	1	280			1.1	8.1	91								
9-29-69	19.1	6	1	282	8.4	90	1.0	8.2	90		128					500	284
9-30-69	19.3	8	1	270	8.4	90	1.5	8.2	90	200	126					600	760
Sept. Avg.	22.3	5	1	2 1	7.4	84	1.4	8.4	90	197	126	29	28	0.22	0.0	1,560	454
Max.	25.4	15	1	3 8	8.4	94	2.0	8.7	95	208	130	31	31	0.37	0.0	7,700	760
Min.	18.0	2	1	2 0	6.3	75	0.9	8.1	87	182	122	26	26	0.11	0.0	93	148
10-1-69	18.9	5	1	2 0	8.3	89	1.1	8.2	92		132					1,100	336
10-2-69	19.2	4	0	272	8.5	91	1.1	8.2	92		128					1,200	304
10-3-69	19.1	6	2	265	8.7	93	1.0	8.4	93		128					380	384

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
10-4-69	19.2	4	1	270	8.2	88	1.3	8.3	90		126					2,500	
10-5-69	19.0	4	1	279			1.9	8.1	87								
10-6-69	18.9	5	0	280	7.7	82	2.0	8.1	91		126			0.14		1,300	100
10-7-69	18.9	5	2	272	8.2	88	1.2	8.1	92	204	126	30	29	0.14		1,500	416
10-8-69	18.8	30	1	270	8.1	86	1.4	8.1	91		130					1,300	468
10-9-69	17.9	7	1	260	8.9	93	0.9	8.2	90	185	126					770	252
10-10-69	18.2	4	1	261	8.8	93	1.0	8.2	92		128					380	236
10-11-69	18.0	5	0	260	9.0	94	1.0	8.2	92		126					430	
10-12-69	18.4	5	0	270			1.4	8.2	91								
10-13-69	18.7	6	1	279	9.3	99	1.3	8.1	92		132					700	504
10-14-69	18.3	160	1	270	9.2	97	1.5	8.1	94	164	130					3,300	744
10-15-69	17.3	20	1	260	9.1	94	1.0	8.1	93		136	30	25	0.34	0.0	1,500	92
10-16-69	17.5	20	0	255	9.7	101	1.2	8.0	89	175	128					2,300	308
10-17-69	16.0	70	1	250	9.5	96	1.1	8.1	89		130					1,400	448
10-18-69	15.6	40	1	242	9.5	95	0.9	8.2	91		126					1,100	
10-19-69	15.4	15	0	240			1.0	8.0	88								
10-20-69	15.4	15	0	258	9.6	96	0.9	8.1	92		128					940	424
10-21-69	15.3	65	1		9.8	98	1.0	8.1	92		126	28	27	0.89		1,500	372
10-22-69	14.4	120	1	235	10.1	99	1.1	8.0	93	182	124					2,600	408
10-23-69	13.3	63	1	232	10.3	98	0.9	8.1	89		132					570	276
10-24-69	13.0	35	0	230	10.1	96	0.8	8.1	94	172	122		21			400	212
10-25-69	12.7	15	1	225	10.3	97	1.0	8.1	92		130					370	
10-26-69	12.8	9	1	230			0.8	8.1	90								
10-27-69	12.4	65	0	231	10.2	96	0.9	8.0	91		122					1,800	264
10-28-69	11.7	33	1	222	10.5	97	0.9	8.0	88	191	122					880	208
10-29-69	12.1	10	1	225	10.6	99	0.9	8.0	89		126	28	22	0.33	0.0	520	156
10-30-69	11.8	7	1	226	10.8	100	0.9	8.2	87	180	122					1,000	140
10-31-69	12.0	6	1	220	10.9	101	0.8	8.3	90		122					460	220

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
Oct. Avg.	16.1	28	1.8	252	9.4	94	1.1	8.1	91	182	127	29	24	0.36	0.0	1,192	311
Max.	19.2	160	2.0	280	10.9	101	2.0	8.4	94	204	136	30	29	0.89	0.0	3,300	744
Min.	11.8	4	0.0	220	7.7	82	0.8	8.0	87	164	122	28	21	C.14	0.0	370	92
11-1-69	11.7	6	1	220	10.9	101	0.6	8.2	88		122					770	
11-2-69	11.7	15	0	222			0.7	8.3	91								
11-3-69	12.0	5	1	215	11.1	103	0.6	8.3	91		120					240	196
11-4-69	12.1	6	1	220			0.9	8.1	87								
11-5-69	11.1	20	1	219	11.2	102	0.8	8.3	91	160	124	27	21	0.50		870	108
11-6-69	10.8	30	1	212	11.0	100	0.7	8.4	89		128					3,100	260
11-7-69	10.6	15	0	219	11.3	102	0.8	8.2	90	186	126					440	288
11-8-69	10.3	20	1	212	11.3	101	0.8	8.3	91	126						430	
11-9-69	10.7	15	1	210			0.8	8.4	90								
11-10-69	10.7	15	1	210	10.8	98	0.6	8.2	91		118					180	260
11-11-69	10.9	15	0	210	11.1	101	0.8	8.2	91	177	116					110	106
11-12-69	10.8	40	1	210	10.9	99	0.7	8.4	89		123	27	20	0.94	0.0	1,100	244
11-13-69	10.5	20	0	212	10.6	95	0.9	8.2	89	194	124					750	204
11-14-69	9.8	30	1	205	11.3	99	0.9	8.2	91		124					780	304
11-15-69	9.1	20	1	210	11.2	97	0.8	8.3	86		124					1,900	
11-16-69	8.3	25	1	202			0.8	8.2	91								
11-17-69	7.7	10	0	205	10.8	90	1.1	8.2	88		130					1,600	308
11-18-69	8.2	8	0	202	11.7	99	0.7	8.3	87	162	124	30	21	0.16		410	120
11-19-69	8.8	40	1	202	11.7	101	0.8	8.3	88		126					1,700	252
11-20-69	7.9	65	1	191	11.5	97	0.9	8.2	91	187	124					990	232
11-21-69	6.5	55	1	200	12.5	102	0.9	8.2	90		132					2,900	268
11-22-69	6.4	45	1	200	14.4	117	1.3	8.1	88		130					15,000	
11-23-69	5.7	25	1				0.9	8.2	89								
11-24-69	6.6	10	0	190	15.2	124	0.8	8.2	87		122	30	23	0.29	0.0	20,000	164
11-25-69	7.0	12	1	192	14.2	117	0.8	8.3	86		122					10,000	192

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
11-26-69	6.6	25	1	191	15.2	124	0.8	8.2	89	150	122					12,000	248
11-27-69	6.4	15	1	190			0.4	8.2	85		120						
11-28-69	6.4	15	0	180	14.7	119	0.6	8.3	86		122					3,500	
11-29-69	6.4	10	1	182	15.4	125	0.6	8.4	87		120					1,600	
11-30-69	6.0	15	1	182			0.7	8.3	86								
Nov. Avg.	8.9	22	1	204	12.2	105	0.8	8.2	89	168	124	28	21	0.47	0.0	3,494	221
Max.	12.1	65	1	222	15.4	125	1.3	8.4	91	194	132	30	23	0.94	0.0	20,000	308
Min.	5.7	5	1	180	10.6	90	0.4	8.1	85	126	116	27	20	0.16	0.0	110	106
12-1-69	5.8	60	1	182	14.6	117	0.7	8.3	87		122					2,300	376
12-2-69	5.2	28	1	183	14.8	117	0.6	8.3	88	155	118	27	21	0.47		1,000	228
12-3-69	4.9	35	1	185	15.4	121	0.7	8.1	88		116						208
12-4-69	4.5	45	1	180	15.4	119	0.8	8.1	84	169	118					13	172
12-5-69	4.2	30	1		13.3	102	0.6	8.0	84		120					10	228
12-6-69	3.8	25	0	175	13.5	103	0.6	8.0	82		112					2	
12-7-69	3.5	24	0	175			0.5	8.0	84								
12-8-69	4.1	15	1	170	13.0	100	0.5	8.0	81		112					6	128
12-9-69	4.1	8	1	175	13.3	102	0.7	8.0	86	169	120					3	144
12-10-69	3.9	6	0	172	13.5	103	0.6	8.1	89		120					14	132
12-11-69	3.8	25	1	188	13.6	104	0.5	8.1	88	160	124	29	21	0.67	0.0	24	276
12-12-69	3.8	25	1	186	13.5	103	0.5	8.1	89		124					80	112
12-13-69	3.3	8	1	188	13.7	103	1.9	8.1	87		134					67	
12-14-69	3.4	15	1	180			1.0	8.0	86								
12-15-69	2.9	30	1	190	13.6	101	0.8	8.1	89		130					4,300	212
12-16-69	2.2	35	1	185	13.7	100	0.9	8.1	93	214	138	32	23	0.86		9,800	308
12-17-69	2.1	25	1		14.1	103	0.7	8.0	89		137					2,400	192
12-18-69	2.2	15	1	190	13.7	100	1.2	8.0	91	193	132					5,300	212
12-19-69	2.2	22	1	185	13.9	101	0.7	8.0	92		128					130	332

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
12-20-69	2.1	30	1	195	14.4	105	1.0	8.0	87		136					1,200	552
12-21-69	1.2	20	1	185			1.1	8.1	85								
12-22-69	1.5	25	1	180	13.9	99	0.9	8.1	93	179	124	30	23	0.19	0.0	1,300	380
12-23-69	1.9	20	1	181	13.7	93	1.4	8.1	88		130					1,300	204
12-24-69	1.3	40	1		13.7	98	0.7	8.1	90		124					530	300
12-25-69	1.4	20	1	180			0.9	8.1	86								
12-26-69	1.5	20	1	170	13.0	93	0.8	8.2	86	176	128					310	116
12-27-69	1.4	50	1	180	12.7	98	0.9	8.2	90		124					430	
12-28-69	1.5	15	1	180			2.4	8.1	92								
12-29-69	1.5	10	1	182	12.7	91	1.6	8.0	85		128					140	68
12-30-69	1.5	9	0	178	4.0	100	0.8	8.2	88	181	126	29	24	0.32		50	100
12-31-69	1.5	55	1	175	13.7	98	1.2	8.2	87		132					1,700	
Dec. Avg.	2.8	26	1	181	13.8	103	0.9	8.1	87	177	125	29	22	0.50	0.0	1,296	226
Max.	5.8	55	1	195	15.4	121	2.4	8.3	93	214	138	32	24	0.86	0.0	9,800	552
Min.	1.2	6	1	170	12.7	91	0.5	8.0	81	155	112	27	21	0.19	0.0	2	68

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-69	0.6	30		13.4	94	2.7	8.0	94		120		21			1,180
1-2-69	0.6	10		13.7	96	1.6	8.0	94		126	19	21			60
1-3-69	0.6	6		13.4	94	2.0	7.9	98		128		21			30
1-4-69	0.6	5		13.1	91	1.7	8.0	96		126		21			10
1-5-69	0.6	3		13.5	94	1.7	7.9	94		124		21			10
1-6-69	0.6	3		14.4	100	1.7	8.0	94	129	124		21	1.00	0.0	80
1-7-69	0.6	5		13.4	94	1.8	8.0	94		124		21		0.0	40
1-8-69	0.6	5		13.2	91	1.9	8.0	96		128	21	21		0.0	130
1-9-69	0.6	6		13.1	91	1.8	8.0	98		138	22	22			1,500
1-10-69	0.6	8		13.0	90	2.0	8.1	98		140	21	23			600
1-11-69	0.6	4		13.4	94	1.9	8.1	100		144		24			760
1-12-69	0.6	3		13.2	91	1.5	8.1	100	134	140	20	24			0
1-13-69	0.6	3		13.0	90	1.6	8.1	98	134	140	17	23	0.14		5
1-14-69	0.6	4		12.9	90	1.6	8.1	98		136	22	24			610
1-15-69	0.6	3		13.1	91	1.5	8.1	96		140	22	24			2,400
1-16-69	0.6	3		13.4	94	1.5	8.1	96		134	22	24			1,530
1-17-69	0.6	2		13.4	94	1.7	8.1	98		142		25			720
1-18-69	1.1	2		13.0	92	1.6	8.1	98		140		25			780
1-19-69	0.6	3		13.1	91	1.4	8.1	96		138		24			70
1-20-69	0.6	2		12.9	90	1.5	8.2	96	149	132		24			190
1-21-69	0.6	2		13.0	90	1.6	8.2	98		136		24			240
1-22-69	1.0	3		12.7	89	2.0	8.2	98		134		24	0.08	0.0	70
1-23-69	1.0	2		13.8	97	1.9	8.1	98		138		24		0.0	450
1-24-69	1.0	2		13.9	98		8.1	98		126		23			240
1-25-69	1.0	20		13.3	94	2.1	8.1	100		122		24			360
1-26-69	0.6	15		13.8	96	2.0	8.1	100		122	28	25		0.0	250
1-27-69	0.6	6		13.6	95	1.9	8.0	94	197	122	25	24			50
1-28-69	0.6	7		13.4	94	2.1	8.0	96		128	28	24		0.0	730
1-29-69	0.6	5		13.6	95	3.0	8.1	96		132		24			2,700

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-30-69	1.1	5		12.4	87	2.1	8.0	100		128		24	0.24		72
1-31-69	1.1	4		13.1	92	2.2	8.0	98		128		23		0.0	50
Jan. Avg.	0.7	6		13.3	93	1.8	8.0	97	149	131	22	23	0.36	0.0	513
Max.	1.1	30		14.4	100	3.0	8.2	100	197	144	28	25	1.00	0.0	2,700
Min.	0.6	2		12.4	87	1.4	7.9	94	129	120	17	21	0.08	0.0	0
2-1-69	1.1	6		13.3	94	2.7	8.1	96		128		23			1,740
2-2-69	1.1	10		13.2	93	2.8	7.9	98		128	28	24			1,350
2-3-69	1.1	15		13.0	92	2.7	8.0	96	135	126		23			2,110
2-4-69	1.1	35		13.2	93	2.7	7.9	98		126	31	23			350
2-5-69	0.6	35		-	-	2.8	7.9	98		150		-	0.20		490
2-6-69	0.6	10		13.0	90	2.1	7.9	96		150		23	0.50	0.0	190
2-7-69	0.6	15		12.9	90	2.2	8.0	92		142	28	24			330
2-8-69	0.6	10		13.1	91	2.3	8.1	90		144		22			340
2-9-69	0.6	15		13.1	91	2.3	8.1	90		138		22			910
2-10-69	0.6	15		12.4	86	2.5	8.0	96		138		23	0.52		490
2-11-69	0.6	10		13.0	90	2.4	8.0	92	164	138		22			210
2-12-69	0.6	7		12.9	90	2.0	8.1	88		132		22			270
2-13-69	0.6	8		12.8	89	1.9	8.1	94		136		22	0.39		50
2-14-69	0.6	7		12.8	89	1.8	8.1	94		136		22			10
2-15-69	1.1	7		12.5	89	1.8	8.0	94		134		22			60
2-16-69	1.0	6		12.7	89	1.3	8.1	92		136	29	22	0.27		1,020
2-17-69	0.6	6		13.2	91	2.1	8.0	94	162	140		22		0.0	470
2-18-69	0.6	5		12.6	88	1.7	8.0	92		134		22			100
2-19-69	0.6	5		12.6	88	1.8	8.0	94		138		22			110
2-20-69	0.6	5		-	-	1.7	8.0	92		92		21	0.30		170
2-21-69	0.6	5		13.0	90	1.7	8.0	98		140		21		0.0	50
2-22-69	0.6	4		13.4	94	2.0	8.1	98		138		22			1,140

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - CI801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-23-69	0.6	5		13.1	91	2.1	8.1	100		138	28	21			1,800
2-24-69	0.6	4		12.8	89	-	8.0	100	154	140	28	21			880
2-25-69	0.6	3		13.2	91	2.0	8.1	100		138		20	0.18		40
2-26-69	0.6	4		13.0	90	1.9	8.0	98		126		20			2,550
2-27-69	0.6	4		13.2	91	1.9	8.0	100		124		20			1,530
2-28-69	0.6	4		12.9	90	2.4	7.9	98		142	28	21		0.0	660
Feb. Avg.	0.7	9		12.9	90	2.1	8.0	95	154	134	28	22	0.34	0.0	693
Max.	1.1	35		13.4	94	2.8	8.1	100	164	150	31	24	0.52	0.0	2,530
Min.	0.6	4		12.4	86	1.3	7.9	88	135	132	28	20	0.18	0.0	10
3-1-69	0.6	4		12.6	89	1.9	8.0	94		132	32			0.0	2,600
3-2-69	0.6	5		12.4	87	3.1	8.0	96		132		21			1,620
3-3-69	0.6	8		13.3	94	3.2	7.9	96	138	134		21	0.32		140
3-4-69	0.6	8		12.4	87	3.1	7.9	100		134		21			730
3-5-69	0.6	9		12.9	91	3.0	8.0	94		130		21			110
3-6-69	0.6	10		12.4	87	3.1	7.9	92		136	31	21			190
3-7-69	0.6	10		12.5	88	3.1	7.9	90		128		20	0.45	0.0	800
3-8-69	0.6	10		12.0	85	3.2	7.9	82		136		20			160
3-9-69	0.6	10		12.2	86	3.3	7.9	88		130		20			2,730
3-10-69	0.6	20		12.1	86	2.1	8.0	86		134		20			530
3-11-69	0.6	15		12.4	87	3.4	7.8	90		138		21			660
3-12-69	0.6	10		12.2	86	3.5	7.9	88		130		21			270
3-13-69	0.6	15		12.2	86	3.5	7.8	88		128		22	0.52		1,500
3-14-69	0.6	15		12.4	87	3.5	7.9	92		136		22			2,070
3-15-69	0.6	10		12.3	87	3.3	7.9	88		132		20			140
3-16-69	0.6	10		12.2	86	3.4	7.8	86		132		20			70
3-17-69	0.6	15		12.2	86	3.3	7.9	90	102	136		22			170
3-18-69	1.0	10		11.8	84	3.3	7.8	86		140	33	22			850

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-19-69	1.5	10		12.4	90	3.4	7.7	86		138		22			450
3-20-69	1.5	15		12.2	88	3.3	7.9	92		132		22			340
3-21-69	1.7	45		12.4	90	4.3	7.8	90		130					140
3-22-69	1.7	37		12.9	94	3.2	7.7	86		132					550
3-23-69	2.8	20		12.5	94	3.6	7.8	88		134					300
3-24-69	2.2	15		12.7	94	3.2	7.8	96	149	126		21			570
3-25-69	2.8	20		12.6	94	2.7	7.9	94		122	25	22		0	2,800
3-26-69	2.2	15		13.0	96	2.5	8.1	90		124			0.90		280
3-27-69	2.8	15		12.5	94	2.9	8.2	92		122		23			450
3-28-69	2.8	15		12.8	96	1.9	8.3	96		126		24			2,680
3-29-69	2.7	10		13.0	97	2.4	8.1	96		126		23			1,270
3-30-69	2.7	9		12.4	93	3.6	8.0	94		130		23			250
3-31-69	2.8	9		12.6	94	2.9	8.0	96	161	128		24			
March Avg.	1.2	14		12.5	90	3.1	7.9	91	138	131	30	22	0.55	0	890
Max.	2.8	45		13.3	97	4.3	8.3	100	161	140	33	24	0.90	0	2.800
Min.	0.6	4		11.8	84	1.9	7.7	82	107	122	25	20	0.32	0	70
4-1-69	2.2	7		12.4	91	3.0	8.2	90		146		24			470
4-2-69	3.3	6		13.0	99	2.4	8.2	90		122		24			150
4-3-69	2.8	25		12.1	91	2.1	7.9	90		138		23			
4-4-69	3.3	10		12.3	93	2.3	8.2	92		126		22			325
4-5-69	3.3	9		12.4	94	2.2	8.2	88		138		20			320
4-6-69	4.4	25		12.3	96	2.2	8.1	86		134		22			1,800
4-7-69	4.4	10		12.3	96	2.4	8.1	86	130	124		23			271
4-8-69	4.4	8		12.3	96	2.3	8.2	90		124		23			177
4-9-69	4.4	10		12.2	95	2.2	8.1	90		124		23			230
4-10-69	5.6	35		11.4	92	2.4	8.0	86		128		23			1,830
4-11-69	6.0	30		11.5	93	2.8	8.0	90		130		22			230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - CI801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-12-69	6.0	15		11.6	94	1.9	8.0	90		136		22			340
4-13-69	6.2	7		11.4	93	1.7	8.1	88		134		23			24
4-14-69	5.6	6		11.8	95	1.6	8.0	86	154	129		24	0.33		0
4-15-69	5.6	8		12.1	97	1.3	8.0	90		118	26	25			0
4-16-69	6.1	5		11.7	95	1.3	8.0	92	118	118		23			1,940
4-17-69	6.7	6		11.7	97	1.9	7.9	88		116		21		0	110
4-18-69	6.7	8		11.5	95	1.7	8.1	84		122		23			270
4-19-69	6.9	65		11.3	94	5.8	8.0	88		128		30			
4-20-69	7.0	50		11.5	96	4.0	8.0	88		126		28			1,250
4-21-69	6.7	25		10.7	88	2.8	8.0	92		126		26			440
4-22-69	7.0	40		11.1	92	3.7	8.0	90		122		28			
4-26-69	8.3	25		10.5	90	2.9	8.0	86		116	40	22			
4-27-69	9.0	25		10.4	91	2.8	7.9	86		118	40	21		0	0
4-28-69	10.3	25		10.2	91	2.9	7.9	84	151	124		24			500
4-29-69	10.5	15		10.0	90	2.3	7.9	88		124		20			280
4-30-69	10.0	10		10.2	91	2.4	8.0	80		132		20	0.08		130
Apr. Avg.	6.1	19		11.6	94	2.5	8.0	88	138	127	35	23	0.21	0	471
Max.	10.5	65		13.0	99	5.8	8.2	92	154	146	40	30	0.33	0	1,940
Min.	2.2	5		10.0	88	1.3	7.9	80	118	116	26	20	0.08	0	0
5-1-69	10.0	10		10.2	91	2.4	8.0	88		134		19			220
5-2-69	9.4	5		10.2	90	1.5	8.1	86		128		20			20
5-3-69	10.0	3		10.3	92	1.7	8.1	88		130		21			210
5-4-69	10.0	3		10.2	91	1.8	8.2	86		132		22			10
5-5-69	9.2	15		10.1	88	1.7	8.0	86	162	120	28				10
5-6-69	8.9	10		10.1	88	1.9	7.9	90		124		23			110
5-7-69	8.5	6		10.2	88	1.7	8.0	94		124		22			20
5-8-69	8.9	5		10.1	88	1.6	8.0	90		120		21			170

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-9-69	10.0	4		10.5	94	2.5	8.0	90		118		22	0.07	0.0	630
5-10-69	11.0	50-		10.2	93	2.1	8.0	92		124		22			690
5-11-69	10.5			10.1	91	1.8	8.0	90		124		22			1,350
5-12-69	11.0	25		10.3	94	1.8	8.1	90	111	128	36	22			450
5-13-69	11.9	15		10.3	96	2.5	8.3	94		128		22			280
5-14-69	12.2	9		10.2	95	2.0	8.2	96		128		21			250
5-15-69	10.8	5		10.3	93	1.5	8.1	92		130		22			70
5-16-69	9.9	4		10.1	90	1.7	8.2	92		126		22	0.02	0.0	64
5-17-69	11.9	4		10.1	94	1.2	8.4	92		132		22			190
5-18-69	12.8			10.3	97	1.8	8.3	94		128		22			130
5-19-69	13.3	9		10.1	97	2.7	8.5	100	175	130		20			1,950
5-20-69	13.9	5		10.1	98	2.4	8.6	92		148	30	21			750
5-21-69	14.4	25		9.8	96	3.4	8.4	94		144		21			3,170
5-22-69	12.0	20		8.6	80	2.3	8.0	94		130		23			3,640
5-23-69	10.2	7		9.1	81		8.0	92		120		23			370
5-24-69	11.0	6		8.5	77		8.0	94		124		23			500
5-25-69	11.0	6		8.7	79	2.6	8.0	96		122		23			770
5-26-69	13.7	10		10.0	96	2.1	8.3	92	117	130	33	22			
5-27-69	13.0	10		9.2	87	2.2	8.2	92		126		23			9,330
5-28-69	12.2	9		9.4	88	2.3	8.2	98		126		23	0.06		150
5-29-69	14.0	6		8.4	81	2.4	8.3	94		124		22			260
5-30-69	15.0	6		9.4	93	2.4	8.3	92		134		22			
5-31-69	15.0	6		9.2	91	2.4	8.3	94		134		23			880
May Avg.	11.5	10		9.9	90	2.1	8.2	92	141	128	32	22	0.05	0.0	865
Max.	15.0	50		10.5	98	3.4	8.6	100	175	148	36	23	0.07	0.0	9,330
Min.	8.5	3		8.4	77	1.2	7.9	86	111	118	28	19	0.02	0.0	10

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli
6-1-69	13.9	5		9.2	88	2.4	8.2	94		138		23			40
6-2-69	15.0	10		9.1	90	2.7	8.4	90		134		21			310
6-3-69	16.0	10		8.8	87	3.0	8.3	90		134		21			1,600
6-4-69	16.0	20		8.8	87	2.5	8.2	90		132		21			1,930
6-5-69	16.0	10		8.8	89	2.6	8.0	90		134	34	20			270
6-6-69	16.0	10		8.6	87	2.6	8.1	90		136		21	0.20		240
6-7-69	15.5	8		8.7	87	2.6	8.1	92		134		21			460
6-8-69	15.0	6		8.6	85	2.0	8.2	90		136		21			780
6-9-69	15.0	20		8.4	83	2.2	8.0	92	154	130		22			70
6-10-69	14.5	7		8.2	80	2.3	8.0	94		134		22			100
6-11-69	14.5	7		8.1	79	2.1	8.0	92		130		23			
6-12-69	15.2	5		8.1	81	2.4	8.0	94		126		23			100
6-13-69	17.2	15		8.1	84	2.2	8.2	92		130		22			1,000
6-14-69	17.0	10		8.1	83	2.2	8.2	92		130		23	0.10		940
6-15-69	16.8	10		8.2	84	2.2	8.2	94		130		22			60
6-16-69	16.2	15		8.7	88	2.3	8.0	94	143	128		23			465
6-17-69	16.1	8		8.5	86	1.9	8.2	92		128	31	22			150
6-18-69	16.0	7		8.7	88	1.7	8.2	92		130		21			610
6-19-69	17.8	5		8.9	93	1.9	8.3	94		126		22	0.38		260
6-20-69	17.8	5		9.1	95	2.5	8.2	92		128		22			2,600
6-21-69	17.8	25		8.6	90	2.1	8.1	92		126		22			1,270
6-22-69	17.8	3		8.8	92	2.3	8.2	94		124		23			2,000
6-23-69	17.8	5		8.6	90	2.1	7.9	92	151	118		22			780
6-24-69	17.8	6		8.4	88	2.5	7.9	94		122	30	22			530
6-25-69	17.8	5		8.3	87	2.0	8.0	92		124		23			310
6-26-69	17.8	2		8.2	86	2.3	8.1	92		120		23			30
6-27-69	18.5	3		9.0	95	2.8	8.3	94		124		22			200
6-28-69	17.7	3		9.0	94	2.9	8.2	92		128		21	0.40		470
6-29-69	20.0	4		9.1	99	3.2	8.3	90	145	120	32	20			120
6-30-69	20.0	3		8.4	91	2.5	8.1	86		130		20			110

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coil.
June Avg.	16.6	8		8.6	88	2.4	8.1	92	148	129	32	22	0.27		601
Max.	20.0	25		9.0	99	3.2	8.4	94	154	138	34	23	0.40		2,600
Min.	13.9	3		8.1	79	1.7	7.9	86	143	118	30	20	0.10		30
7-1-69	20.0	2		8.8	96	2.8	8.6	96		132		20			120
7-2-69	20.5	6		8.5	93	3.0	8.4	94		136		20			
7-3-69	20.5	4		8.2	90	2.7	8.4	96		136		21			
7-4-69	19.8	2		8.3	90	3.6	8.1	96		134		20	0.18		140
7-7-69	18.3	45		3.3	35	4.2	7.7	92		130	31	22			790
7-8-69	18.0	30		5.3	56	5.0	7.7	94	197	128		23			1,110
7-9-69	18.3	25		6.5	69	3.2	7.7	92		130		23			950
7-10-69	19.0	15				2.6	7.8	94		130					1,150
7-11-69	20.0	20		7.4	81	3.2		92		126					3,600
7-12-69	22.0	20		7.1	80	3.8		94				20			3,700
7-13-69	23.0	20		7.4	85	3.8	7.7	94		130		19			500
7-14-69	21.3	20		6.0	67	4.2	7.7	92	139	130		19			370
7-15-69	21.3	10		5.9	66	3.2	7.8	90		122	37	20		0.0	200
7-16-69	21.1	25		5.5	61	3.0	7.9	88		126		21	0.18		190
7-17-69	21.6	25		9.0	101	3.0	8.5	92		128		21			4,080
7-18-69	22.9	9		8.0	92	3.1	8.1	92		120		22			1,200
7-19-69	22.0	15		8.0	90	3.0	8.0	94		124		22			
7-20-69	22.0	15		5.6	63	2.1	8.1	92		122		22			250
7-21-69	22.6	8		6.5	74	2.3	7.9	94	195	124	25	20			1,030
7-22-69	21.1	10		5.8	64	2.3	8.0	92		126		20		0.0	360
7-23-69	22.0	20		3.4	38	2.4	7.8	92		126		20			260
7-25-69	22.0	6		2.9	33	2.6	7.7	90		128		20			820
7-26-69	24.0	3		5.4	63	3.1	8.0	88		126		20			1,380
7-27-69	24.0	2		6.1	71	3.1	8.1	92		130		20			700
7-28-69	24.0	2		6.3	74	3.0	8.1	88		128		20			50

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
7-29-69	23.8	3		5.5	64	3.0	8.1	88		128		20			190
7-30-69	23.8	3		5.8	68	3.3	8.0	98		132		20			170
7-31-69	24.0	4		8.8	103	3.4	8.0	98		130	27	20			75
July Avg.	21.5	14		6.5	73	3.1	8.0	93	171	128	30	21	0.18	0.0	935
Max.	24.0	45		9.0	103	5.0	8.6	98	193	136	37	23	0.18	0.0	4,080
Min.	18.0	2		2.9	33	2.1	7.7	88	139	120	25	19	0.18	0.0	50
8-1-69	23.0	4		6.7	77	3.2	7.7	92		130		19			70
8-2-69	23.5	10		7.7	89	3.4	7.9	90		132		19			110
8-3-69	23.5	7		7.2	83	2.8	7.7	90		126		19			90
8-4-69	24.0	4		7.6	89	2.6	7.9	90	172	128		19			40
8-5-69	23.5	5		5.5	64	3.0	7.7	92		124	19	19			90
8-6-69	24.0	1		9.1	106	3.8	8.3	90		124		20			40
8-7-69	23.6	4		7.4	86	2.7	7.9	90		126		20			120
8-8-69	24.5	3		8.5	100	3.2	8.3	90		130		22			4,090
8-9-69	24.2	4		8.0	94	2.8	8.4	92		128		21	0.58	0.0	1,680
8-10-69	24.0	9		8.0	94	2.4	8.2	92		130		20			820
8-11-69	23.8	6		8.1	94	3.1	8.1	92	290	130		22			5,375
8-12-69	23.5	6		8.6	100	3.1	8.4	92		128	21	22			245
8-13-69	24.1	20		9.8	115	3.0	8.2	90		130		20			60
8-14-69	23.9	6		10.2	119	3.3	8.0	92		128		20			60
8-15-69	19.0	8		3.6	38	5.2	8.0	92		130		20		0.0	103
8-16-69	23.0	4		3.8	44	6.3	7.8	96		128		20			600
8-17-69	23.0	6				4.3	7.9								
8-18-69	23.0	8		6.7	77	1.1	8.4	94		124		23			1,630
8-19-69	23.0	5		9.2	106	2.6	8.5	96	178	130		22			1,080
8-20-69	24.0	2		9.0	105	4.8	8.5	94		130		22			80
8-21-69	23.0	10		8.5	98	3.2	8.3	94		128		22	1.14		100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
8-22-69	23.0	3		8.5	98	2.9	8.5	96		132	18	22			70
8-23-69	23.1	3		8.0	92	2.3	8.3	94		130	18	22			200
8-24-69	23.5	2		8.1	94	3.2	8.4	94		128		23			210
8-25-69	23.0	2		8.4	96	2.9	8.8	96	159	128		26			2,150
8-26-69	24.5	4		8.7	102	2.7	8.5	92		130		26			310
8-27-69	23.9	2		8.2	96	2.5	8.2	92		130		26	0.19		830
8-28-69	23.5	2		8.0	93	2.1	8.4	94		132		23			30
8-29-69	23.5	2		6.8	79	2.1	8.3	94		128		23			10
8-30-69	23.5	2		6.8	79	2.3	8.5	90		130	24	23			10
8-31-69	24.0	1		7.7	90	2.4	8.4	92		130		28			30
Aug. Avg.	23.4	5		7.7	91	3.1	8.2	92	200	128	20	22	0.64	0.0	678
Max.	24.5	20		10.2	119	6.3	8.8	96	290	132	24	28	1.14	0.0	5,375
Min.	19.0	1		3.6	38	1.1	7.7	90	159	124	18	19	0.58	0.0	10
9-1-69	24.0	3		6.2	72	2.7	8.3	94	159	132		22	0.32		40
9-2-69	24.1	2		6.2	73	3.9	8.6	92		130		22			3100
9-3-69	23.7	4		6.2	72	2.8	8.4	94		128	36	22			150
9-4-69	23.9	5		4.7	55	2.8	8.1	92		128		22	0.41		
9-5-69	23.6	4		6.3	73	3.2	8.0	92		126	21	21			30
9-6-69	23.2	4		6.2	71	2.5	8.0	92	196	128		22			20
9-7-69	24.5	2		6.8	80	2.7	8.0	94		128		22			10
9-8-69	24.3	4		7.4	87	2.6	8.7	96		128		22			580
9-9-69	23.8	4		7.6	88	3.0	8.6	94		128		21			6070
9-10-69	23.2	4		7.2	83	3.5	8.4	92		128		21			410
9-11-69	22.8	6		7.4	85	3.6	8.2	94		130		23			
9-12-69	22.0	2		8.3	94	2.6	8.5	94		130	31	23			455
9-13-69	22.0	3		7.5	85	2.7	8.4	94		128		22			175
9-14-69	22.0	5				2.4	8.2	94		128		23			

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
9-15-69	22.0	2		8.2	93	2.7	8.1	94		126		22		0.00	360
9-16-69	21.5	3		7.9	88	2.7	8.4	94	169	126	32	23	0.18	0.00	840
9-17-69	21.6	4		7.8	87	2.7	8.6	96		128		22			
9-18-69	20.8	20		8.1	89	2.9	8.5	92		128		23			2900
9-19-69	20.8	15		7.7	85	2.8	8.4	94		132		25			1070
9-20-69	20.1	10		7.5	82	2.3	8.4	92		134		25			900
9-21-69	20.1	4		7.6	83	2.8	8.4	92		130		25			320
9-22-69	18.8	3		7.8	83	5.2	8.4	92	169	140		30	0.12	0.00	680
9-23-69	18.8	5		7.5	80	5.1	8.4	90		140		32			680
9-24-69	19.4	6		7.9	85	4.2	8.4	90		142	32	31	0.005		7800
9-25-69	19.2	10		7.8	84	2.8	8.2	90		144		28			1020
9-26-69	19.0	5		8.5	91	2.9	8.4	92		142		30			110
9-27-69	19.0	5		8.0	86	2.6	8.4	90		134	32	27	0.05		3100
9-28-69	19.0	7		7.7	82	2.4	8.4	90		138		28			1000
9-29-69	18.5	4		8.1	86	2.2	8.3	92	191	140					
9-30-69	18.0	4		8.4	88	2.1	8.4	92		140		27			130
Sep. Avg.	21.4	5		7.4	82	3.0	8.3	93	177	132	30	23	0.19	0.00	1238
Max.	24.5	20		8.5	94	5.2	8.7	96	196	144	36	32	0.41	0.00	7800
Min.	18.0	2		4.7	55	2.1	8.0	90	159	126	21	21	0.005	0.00	10
10-1-69	18.0	2		8.1	85	2.1	8.3	94		140		27			170
10-2-69	18.0	6		8.2	86	2.3	8.3	94		142		27			15
10-3-69	18.0	3		8.2	86	2.5	8.2	94		140		26			530
10-4-69	18.0	2		8.0	84	2.3	8.2	92		130	32	27	0.05	0.00	180
10-5-69	18.0	2		8.0	84	2.5	8.3	92		132		26			70
10-6-69	18.0	3		8.1	85	2.0	8.2	92	169	136		26			80
10-7-69	18.0	3		8.0	84	2.3	8.1	92		126	26	26			90

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - CI801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
10-8-69	18.0	4		8.2	86	2.0	8.2	92	100	130		25			200
10-9-69	17.5	10		8.2	85	2.1	8.2	92		130		26			
10-10-69	17.5	4		8.2	85	2.1	8.2	92		130		27			725
10-11-69	18.0	2		8.2	86	2.6	8.3	92		132	26	26	0.25	0.00	43
10-12-69	18.0	10		8.2	86	2.4	8.3	92		132		26	0.25		990
10-13-69	18.0	15		8.1	85	2.2	8.3	94	182	134		28			50
10-14-69	16.1	20		8.3	84	2.7	8.2	94		134		27	0.35		450
10-15-69	17.0	10		8.0	82	2.3	8.3	90		132		23			840
10-16-69	16.4	15		8.1	82	2.5	8.3	90		134		24			730
10-16-69															1400
10-17-69	15.0	15		8.3	82	2.4	8.2	92		138		22	0.48		3350
10-18-69	13.9	15		8.4	81	2.5	8.2	94		132		22			1550
10-19-69	13.9	30		8.7	84	2.5	8.2	92	162	134		22			3370
10-20-69	13.9	7		8.5	82						24	26		0.00	1180
10-21-69	13.9	20		8.4	81	2.2	8.2	92		132	24	24		0.00	2470
10-22-69	13.0	35		8.9	85	2.7	8.1	92		128		21			980
10-23-69	13.0			9.0	86	2.3	8.1	94		130		22			
10-24-69	12.5	15		9.6	90	2.1	8.1	94		124		22	0.46		5000
10-25-69	12.5	10		10.4	98	2.0	8.2	94		130		22			260
10-26-69	12.0	6		10.3	96	2.0	8.2	92	168	128	27	22		0.00	680
10-27-69	12.5	20		10.3	97	2.1	8.3	90	168	130	27	22			1460
10-28-69	11.5	10		9.8	90	1.9	8.2	90		132		23			240
10-29-69	11.5	10		10.2	94	1.9	8.3	92		132		23			260
10-30-69	11.5	10		10.3	95	2.2	8.3	92		134		23			
10-31-69	11.5	8		10.0	92	1.9	8.1	92		128		22			100
Oct. Avg.	15.3	11		8.7	86	2.3	8.2	92	158	132	26	24	0.31	0.00	947
Max.	18.0	35		10.4	98	2.7	8.4	94	182	142	32	28	0.48	0.00	5000
Min.	11.5	2		8.0	81	1.9	8.1	90	100	124	24	21	0.05	0.00	15

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-1-69	11.0	4		10.5	96	1.9	8.3	94		128		21		0.00	680
11-2-69	11.0	4		10.4	95	1.9	8.3	94	150	130		21	0.12		3375
11-3-69	11.0	6		10.2	93	1.9	8.1	88		130	24	22			6130
11-4-69	11.0	4		10.2	92	2.0	8.1	90		130		21			1355
11-5-69	11.0	6		10.2	93	2.4	8.4	90		128		20		0.00	340
11-6-69	10.0	10		10.4	92	3.0	8.2	90		130		20			
11-7-69	10.0	10		10.8	95	2.3	8.2	94		130		21			2100
11-8-69	10.0	9		10.8	95	2.2	8.2	90		132	21	21	0.26	0.00	7600
11-9-69	10.0	25		11.2	99	2.1	8.2	92	214	132		21			310
11-10-69	10.0	6		11.0	97	2.1	8.3	90		130		23			1090
11-11-69	10.0	5		10.9	96	2.2	8.3	92		132		21			1530
11-12-69	10.0	9		10.4	92	2.3	8.6	90		120					5400
11-13-69	9.4			10.6	92	2.9	8.5	92		122	27	22	0.25		
11-14-69	9.4	15		10.6	92	2.8	8.2	94		124	27	21	0.25		960
11-15-69	7.7	9		10.5	88	2.7	8.3	96		134		20			480
11-16-69	6.7	15		10.6	87	2.5	8.2	90		136		20			440
11-17-69	6.7	5		11.4	93	2.2	8.1	98	140	130		19			130
11-18-69	7.0	4		11.3	93	2.1	8.3	96	162	122	28	19			80
11-19-69	7.2	7		11.4	94	2.1	8.3	96		128	28	20	0.10	0.00	671
11-20-69	6.6	20		11.5	94	2.8	8.2	98		134	26	23	0.68		140
11-21-69	6.6	20		11.5	94	3.2	8.2	98		130	26	25		0.00	1930
11-22-69	5.6	15		11.3	90	3.1	8.2	98		132		24			1500
11-23-69	5.6	15		11.5	92	2.9	8.1	98		134		23			2850
11-24-69	5.6	6		11.7	93	2.5	8.1	96	163	134	29	22	0.15	0.00	700
11-25-69	5.8	4		11.8	94	2.4	8.2	96		120	24	21	0.19		600
11-26-69	5.6	5		12.3	98	2.0	8.3	94		134		22			380
11-27-69	5.6	5		12.1	96	2.5	8.2	94		132		22			740
11-28-69	5.5	5		12.0	95	1.5	8.1	92		132	21	21	0.12		
11-29-69	5.0	8		12.0	94	2.0	8.2	92		134		22			2100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-30-69	3.9	25		12.2	93	2.5	8.2	94		132		21			1050
Nov. Avg.	8.0	10		11.1	94	2.4	8.2	94	166	130	25	21	0.23	0.00	1654
Max.	11.0	25		12.3	99	3.2	8.6	98	214	136	29	25	0.68	0.00	7600
Min.	3.9	4		10.2	87	1.5	8.1	88	140	120	21	19	0.10	0.00	80
12-1-69	3.9	25		12.4	95	2.3	8.1	92	143	136	28	20	0.25		4740
12-2-69	4.0	10		12.4	95	2.1	8.2	94		132		21	0.21	0.00	3950
12-3-69	3.7	15		12.4	94	2.4	8.2	94		134		21			380
12-4-69	3.9	20		12.7	97	2.4	8.2	98		128		20			486
12-5-69	2.9	20		12.9	96	2.3	8.2	94		134	24	21		0.00	500
12-6-69	3.9	15		12.8	98	2.4	8.2	94		136		21			390
12-7-69	3.4	15		12.5	94	2.2	8.1	96		136		20			
12-8-69	2.9	20		12.5	93	2.1	8.2	94	129	130		21	0.05	0.00	1170
12-9-69	2.7	8		12.9	95	1.9	8.1	92		126	25	21			270
12-10-69	3.0	5		12.6	94	2.0	8.2	90		120		21			94
12-11-69	2.7	25		12.7	94	2.0	8.0	90		122		19			12000
12-12-69	2.7	20		12.6	93	2.7	8.1	92		122		20	0.40		1170
12-13-69	2.7	8		11.5	85	3.2	8.1	92		130		30			1080
12-14-69	2.7	5		12.0	89	3.0	8.2	94		124		19			550
12-15-69	2.2	8		12.8	93	2.4	8.1	96	150	134	31	22	0.11		380
12-16-69	1.7	15		13.5	97	2.8	8.2	94		134		21		0.03	1360
12-17-69	1.1	10		13.1	93	2.8	8.2	94		136		22	0.28	0.00	1350
12-18-69	1.1	8		13.0	92	3.0	8.2	94		136		21			680
12-19-69	1.0	9		13.3	94	3.0	8.1	96		132		21			40
12-20-69	1.0	10		13.4	95	2.6	8.1	94		134		21			180
12-21-69	1.0	6		13.3	94	2.3	8.1	94		134		22			57
12-22-69	0.6	10		13.8	97	2.6	8.2	96	134	136	35	22	0.14		115
12-23-69	0.6	9		13.7	96	2.3	8.1	94		132		21			250

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
12-24-69	0.6	15		13.4	94	2.5	8.1	94		134		21			160
12-25-69	0.6	10		13.2	92	2.3	8.1	96		134		22			200
12-26-69	0.6	15		13.3	93	2.9	7.9	98	140	136	32	23	0.34		190
12-27-69	0.6	15		13.8	96	2.9	8.1	96	168	128		23		0.00	880
12-28-69	0.6	9		13.6	95	2.6	8.1	94		132		22			410
12-29-69	0.6	10		13.5	94	2.6	8.0	92		128		22			860
12-30-69	0.6	8		13.9	97	2.7	8.0	96		128		22			190
12-31-69	0.6	10		13.9	97	2.7	8.0	94		130		22			240
Dec. Avg.	1.9	12		13.0	94	2.5	8.1	94	144	131	29	21	0.22	0.01	1144
Max.	4.0	25		13.9	98	3.2	8.2	98	168	136	35	30	0.40	0.03	12000
Min.	0.6	5		11.5	85	1.9	8.0	90	129	120	24	19	0.05	0.00	40

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-2-69	6.0	7	330	14.5	115	0.8	8.1	89		119					13
1-3-69	9.0	10	326	14.4	123	1.0	7.9	86		120					77
1-6-69	6.0	2	289	14.3	114	0.8	8.1	93		125	25	24	0.00	0.0	34
1-7-69	9.0	5	301	14.2	121	0.6	8.2	93		129					20
1-8-69	6.5	5	281	14.5	116	1.0	8.0	92		121					73
1-9-69	6.0	4	294	14.5	115	0.8	7.9	89		131					22
1-10-69	5.5	3	241	14.4	113	0.6	8.0	88		132					6
1-13-69	6.0	5	310	13.8	109	1.7	7.9	89		130	24	22	0.10	0.0	77
1-14-69	6.0	4	311	14.1	112	0.3	8.0	91		134					300
1-15-69	6.0	3	313	14.1	112	1.2	7.8	89		132					120
1-16-69	6.0	3	313	14.2	113	1.7	7.9	91		134					200
1-17-69	6.5	4	328	13.8	111	2.4	7.8	91		134					-
1-19-69	5.0	3	298	13.8	107	1.5	7.8	89		131					88
1-20-69	6.0	3	295	14.3	114	1.0	7.9	90		127	21	21	0.60	0.0	7
1-21-69	6.0	3	288	13.9	110	0.8	7.8	90		124	21	21	0.61	0.0	10
1-22-69	6.0	2	298	14.0	111	0.8	7.9	95		131					6
1-23-69	5.0	2	294	14.1	110	0.7	7.9	94		128					1
1-24-69	7.0	2	298	14.3	116	0.8	7.9	95		129					7
1-26-69	5.0	15	283			0.7	8.1	93		126					280
1-27-69	5.0	6	297	14.2	110	0.7	7.9	95		126	22	22	0.32	0.0	7
1-28-69	6.0	5	304	14.1	112	0.8	7.9	96		130					8
1-29-69	4.0	6	307			0.9	7.9	96		127					4
1-30-69	6.0	3	283	14.1	112	1.0	7.9	95		128					4
1-31-69	7.0	5	301	14.0	114	1.2	7.9	94		131					110
Jan. Avg.	6.1	4	299	14.1	113	1.0	7.9	91		128	22	22	0.33	0.0	63
Max.	9.0	15	330	14.5	123	2.4	8.2	96		134	25	24	0.61	0.0	300
Min.	5.0	2	241	13.8	107	0.6	7.8	86		119	21	21	0.00	0.0	1

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
2-3-69	6.0	35	299	13.8	109	0.9	8.1	96		134	21	24	0.10	0.0	110
2-4-69	5.0	25	314	13.6	105	1.1	8.0	96		128					220
2-5-69	6.0	8	298	14.0	110	0.7	8.1	95		134					21
2-6-69	5.0	4	296	14.0	108	0.8	8.0	94		134					7
2-7-69	6.0	5	296	14.0	110	0.9	8.1	96		133					9
2-10-69	6.5	3	283	14.0	112	1.0	7.9	97		128	23	23	0.08	0.0	13
2-11-69	0.0	3	294	14.2	97	0.9	7.9	96		131					27
2-13-69	0.0	5	296	14.3	98	1.0	8.0	96		128					62
2-14-69	0.0	4	252	14.1	96	0.9	8.0	97		128					26
2-17-69	0.0	3	293	14.0	96	0.9	8.0	96		129					5
2-18-69	0.0	2	286	-	-	0.8	8.0	97		126					3
2-19-69	0.0	2	293	14.1	96	0.9	8.0	96		126					0
2-20-69	0.0	2	294	14.1	96	0.9	8.0	96		129	21	18	0.06	0.0	4
2-21-69	0.0	3	290	14.1	96	0.9	8.0	97		128					6
2-24-69	0.0	4	300	14.2	97	1.3	8.1	94		132					94
2-25-69	0.0	4	284	14.1	96	1.3	8.0	95		128					8
2-26-69	0.0	4	282	13.9	95	1.5	8.1	97		130					13
2-27-69	0.0	5	289	13.5	93	1.7	7.9	97		124					7
2-28-69	0.0	4	296	-	-	1.7	7.9	96		128					13
Feb. Avg.	1.8	7	290	14.0	100	1.0	8.0	96		129	22	22	0.08	0.0	34
Max.	6.5	35	314	14.3	112	1.7	8.1	97		134	23	24	0.10	0.0	220
Min.	0.0	2	252	13.5	93	0.7	7.9	94		124	21	18	0.06	0.0	0
3-3-69	0.0	10	305	13.4	92	2.4	7.9	96	8	131	30	24	0.40	0.0	14
3-4-69	0.0	15	300	13.0	89	2.6	7.8	96	6	132					2
3-5-69	0.0	15	305	13.1	90	2.7	7.8	96	6	132					8
3-6-69	0.0	15	305	13.2	91	2.5	7.8	97	6	130					50
3-7-69	0.0	15	305	12.9	89	2.6	7.8	97	8	133					3
3-10-69	0.0	11	295	13.3	91	2.4	7.8	96	8	134	21	25	0.16	0.0	9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-11-69	0.0	9	290	13.5	93	2.3	7.7	93	8	132					8
3-12-69	0.0	9	295	12.9	89	2.6	7.8	94	10	129					150
3-13-69	0.0	5	300	12.9	89	3.0	7.8	95	8	130					170
3-14-69	0.0	3	315	12.9	89	2.6	7.7	94	8	130					19
3-17-69	2.0	5	460	10.9	79	14.2	7.2	94	50	154	46	50	0.85	0.0	16,800
3-18-69	2.0	3	430	11.6	84	12.0	7.2	94	35	146					9,000
3-19-69	2.0	4	390	11.9	86	4.3	7.7	96	50	143					3,300
3-20-69	2.0	4	335	12.3	89	6.9	7.6	95	50	135					1,200
3-21-69	2.0	11	280	12.2	89	4.2	7.8	92	35	128					390
3-24-69	1.1	10	270	13.7	97	2.7	8.0	89	17	124	26	21	0.60	0.0	22
3-25-69	1.1	10	280	13.3	94	2.6	8.0	91	12	124					36
3-26-69	2.2	15	275	13.6	99	2.2	7.9	89	12	125					39
3-27-69	1.6	10	280	13.8	99	1.1	8.3	93	12	121					16
3-28-69	2.2	5	290	13.7	100	1.1	8.3	95	8	126					8
3-31-69	1.6	30	270	13.0	93	1.9	8.3	89	8	119	20	21	0.85	0.0	28
Mar. Avg.	0.9	10	313	12.8	90	3.8	7.8	94	17	131	36	28	0.57	0.0	2,099
Max.	2.2	30	460	13.8	100	14.2	8.3	97	50	154	46	50	0.85	0.0	16,800
Min.	0	3	270	10.9	79	1.1	7.2	89	6	119	20	21	0.16	0.0	2
4-1-69	2.2	9	275	13.3	97	1.8	8.2	89	8	122					21
4-2-69	2.2	7	270	13.5	99	1.3	8.3	89	6	118					35
4-3-69	2.2	6	255	13.5	99	1.7	8.2	89	6	114					25
4-4-69	2.2	3	280	13.8	101	1.7	8.3	90	6	120					21
4-7-69	3.3	4	270	13.4	101	2.0	8.0	91	6	115	23	21	0.36	0.0	8
4-8-69	3.3	3	280	13.5	101	1.2	7.9	90	6	121					10
4-9-69	3.9	2	270	13.4	102	1.5	8.0	90	6	118					16
4-10-69	4.4	3	290	13.8	107	1.2	8.2	92		124					75
4-11-69	4.4	15	290	13.2	102	1.3	8.2	93		124					130

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-14-69	4.4	4	300	13.1	101	0.9	7.8	92		130	23	26	0.48	0.0	9
4-15-69	5.1	3	280	13.2	104	1.1	7.8	93		124					3
4-16-69	5.5	3	285	13.4	106	1.0	8.0	93	6	125					7
4-17-69	5.1	2	275	12.8	101	0.7	8.1	94	6	125					4
4-18-69	5.6	7	280	12.6	100	1.2	7.4	93	6	126					11
4-21-69	7.2	20	305	11.2	93	4.1	7.8	92	35	126	24	26	0.47	0.0	340
4-22-69	7.8	20	300	11.4	96	4.4	7.8	92	35	126					1,240
4-23-69	6.7	50	260	11.2	92	3.4	7.7	94	35	126					850
4-24-69	7.2	40	340	11.4	94	3.8	7.8	92	70	119					1,700
4-25-69	7.8	30	265	11.2	94	3.3	7.9	94	50	120					130
4-26-69	9.4	20	270	10.6	92	2.0	7.9	92	35	118	25	22	0.44	0.0	180
4-29-69	10.0	15	270	10.9	96	2.3	7.9	93	35	123					130
4-30-69	9.4	10	275	10.7	93	1.7	7.8	94	35	125					58
Apr. Avg.	5.6	13	281	12.5	99	2.0	8.0	92	22	122	24	24	0.44	0.0	227
Max.	10.0	50	340	13.8	107	4.4	8.3	94	70	130	25	26	0.48	0.0	1,700
Min.	2.2	2	255	10.6	92	0.7	7.4	89	6	114	23	21	0.36	0.0	4
5-1-69	9.0	7	265	10.3	90	2.0	7.8	95	35	126					45
5-2-69	8.5	7	280	10.3	88	1.7	7.8	91	35	131					57
5-5-69	8.5	7	275	10.5	90	1.4	7.9	91	35	122					91
5-6-69	6.7	5	280	11.0	90	0.9	7.8	92	35	125	24	23	0.10	0.0	74
5-7-69	6.7	5	280	11.1	91	1.1	7.8	92	35	119					130
5-8-69	6.7	5	275	10.8	88	1.3	7.8	93	35	121					210
5-9-69	7.8	9	280	11.0	92	1.2	7.9	92	35	122					120
5-12-69	11.1	15	280	10.8	99	2.2	8.0	93	17	125	29	23	0.12	0.0	100
5-13-69	11.8	15	275	10.9	101	1.2	8.1	94	35	127					95
5-14-69	11.8	10	280	10.6	98	1.6	8.1	94	35	129					110
5-15-69	10.6	7	285	10.9	98	1.1	8.1	9	35	125					63

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-16-69	10.6	6				0.8									57
5-19-69	10.6	3	265	10.1	91	1.2	7.9	94	35	126	22	23	0.04	0.0	350
5-20-69	12.2	8	270	9.9	93	1.4	8.0	94	35	124					120
5-21-69	14.4	6	230	11.4	112	1.7	8.5	94	35	124					180
5-22-69	11.1	7	225	10.4	95	1.5	8.1	94	35	126					150
5-23-69	10.0	6	200	9.5	85	1.1	7.9	94	24	124					150
5-26-69	10.6	10	235	8.6	78	1.1	7.8	93	12	127	27	23	0.30	0.0	200
5-27-69	10.6	7	235	7.9	71	1.3	7.7	93	17	127					240
5-28-69	10.0	6	230	7.5	67	1.1	7.7	93	17	129					110
5-29-69	12.8	10	240	8.2	78	1.4	7.8	94	12	129					100
5-30-69	14.4	6	230	7.7	75	1.6	7.9	93	17	127					120
May Avg.	10.3	8	258	10.0	89	1.4	7.9	93	29	125	26	23	0.14	0.0	131
Max.	14.4	15	285	11.4	112	2.2	8.5	95	35	131	29	23	0.30	0.0	350
Min.	6.7	6	200	7.5	67	0.8	7.7	91	12	119	22	23	0.04	0.0	45
6-2-69	11.0	7	290	9.1	83	1.2	8.0	97	35	131	23	23	0.18	0.0	91
6-3-69	15.5	5	281	10.0	100	1.2	8.4	94		125					68
6-4-69	15.5	4	284	9.6	96	1.6	8.4	95	24	129					88
6-5-69	15.5	5	287	9.3	93	1.4	8.3	94	24	135					76
6-6-69	15.5	7	285	8.7	87	1.7	8.0	95	17	131					70
6-9-69	14.6	6	279	8.8	86	1.4	7.9	93	17	125	26	23	0.28	0.0	200
6-10-69	13.9	4	280	8.3	80	1.5	7.9	94	17	127					270
6-11-69	13.9	4	277	6.7	65	1.5	7.8	94	17	127					230
6-12-69	13.9	5	282	6.5	63	1.7	7.7	93	17	133					150
6-13-69	13.9	5	279	5.9	57	1.9	7.7	93	12	131					180
6-16-69	15.5	5	283	7.6	76	2.1	7.9	92	12	131	25	22	0.16	0.0	76
6-17-69	15.5	4	283	8.4	84	1.8	8.0	94	12	131					140

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-18-69	15.5	4	289	6.5	65	1.3	7.8	94	12	129					250
6-19-69	15.5	3	284	8.3	83	1.7	7.9	93	12	129					410
6-20-69	15.5	3	283	8.2	82	1.5	7.9	93	17	129					240
6-23-69	13.9	9	280	5.3	51	1.7	7.6	94	8	131					370
6-24-69	15.5	6	282	8.4	84	1.8	7.8	94	8	131					380
6-25-69	15.5	3	288	8.4	84	1.6	7.9	94	8	131					370
6-26-69	15.5	3	285	7.6	76	1.6	7.8	94	8	133	24	22	0.34	0.0	320
6-27-69	15.5	3	285	8.4	84	1.5	7.8	94	8	131					170
6-30-69	14.6	3	291	3.6	35	2.0	7.9	94	8	130	26	24	0.20	0.0	660
June Avg.	14.8	5	283	7.8	77	1.6	7.9	94	15	130	25	23	0.23	0.0	229
Max.	15.5	9	291	10.0	100	2.1	8.4	97	35	135	26	24	0.34	0.0	660
Min.	11.0	3	277	3.6	35	1.2	7.6	92	8	125	23	22	0.16	0.0	68
7-1-69	16.7	6	286	3.7	38	1.2	7.6	95	8	129					2,950
7-2-69	16.7	7	285	5.1	52	1.5	7.7	96	8	130					670
7-3-69	17.2	4	281	6.2	64	1.9	7.8	96	8	129					910
7-7-69	14.4	9	286	1.9	19	2.7	7.6	95		135	26	22	0.55	0.13	1,000
7-8-69	11.7	25	286	3.9	36	1.1	7.5	96	24	134					2,800
7-9-69	12.2	10	287	4.1	38	2.0	7.5	96	8	132					24,000
7-10-69	15.6	7	289	5.4	54	1.3	7.5	95	17	129					43,000
7-11-69	16.7	5	290	5.7	58	2.5	7.6	96	12	133					12,600
7-14-69	21.1	16	262	6.4	71	2.7	7.7	90	17	124	30	20	0.36	0.0	840
7-15-69	21.1	15	261	5.9	66	2.1	7.6	90	17	117					7,800
7-16-69	21.1	15	260	5.6	62	2.6	7.7	89	17	127					5,700
7-17-69	21.1	15	259	4.9	54	2.8	7.7	89	17	123					8,500
7-18-69	21.1	15	262	4.1	46	2.9	7.5	87	17	123					14,500
7-21-69	18.3	6	279	0.9	9	1.9	7.4	93	17	129	30	22	0.25	0.0	11,800

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
7-22-69	19.4	7	265	0.6	6	1.9	7.4	92	17	126					19,000
7-23-69	18.9	4	271	1.0	11	1.7	7.5	93	17	128					40,000
7-24-69	19.4	5	269	1.7	18	1.6	7.6	92	17	125					16,700
7-25-69	20.0	10	263	0.9	10	2.0	7.4	87	17	123					10,500
7-28-69	22.8	10	263	6.0	69	2.2	7.8	92	24	120	27	19	0.10	0.0	18,300
7-29-69	22.8	7	260	3.3	38	2.3	7.6	91	24	129					29,000
7-30-69	23.3	4	252	6.1	70	2.5	7.8	90	17	125			0.18	0.0	34,000
7-31-69	23.3	3	255	6.3	73	2.6	7.8	91	17	125			0.08	0.0	29,600
July Avg.	18.9	9	271	4.1	44	2.1	7.6	92	16	127	28	21	0.25	0.02	15,190
Max.	23.3	25	290	6.4	73	2.9	7.8	96	24	135	30	22	0.55	0.13	43,000
Min.	11.7	3	252	0.6	6	1.1	7.4	87	8	117	26	19	0.08	0.0	670
8-1-69	23.3	4	254	4.8	55	2.9	7.7	92	24	129					
8-4-69	20.6	3	260	0.1	1	3.2	7.5	91	24	126	26	22	0.14	0.35	5,300
8-5-69	19.4	3	264	0.1	1	3.5	7.4	91	35	126			0.30	0.20	3,600
8-6-69	18.3	3	274	0.1	1	3.9	7.4	93	50	128			0.23	0.45	8,300
8-7-69	18.3	2	266	0.1	1	4.3	7.3	91	70	127			0.36	0.48	12,500
8-8-69	18.3	2	280	0.0	0	7.2	7.3	91	50	132					17,200
8-11-69	23.9	10	261	6.4	75	4.8	8.4	93	17	118	24	25	0.09	0.0	2,200
8-12-69	23.9	15	263	6.4	75	5.9	8.3	91	17	124					3,500
8-13-69	23.9	7	273	4.2	49	6.0	7.7	94	17	122					1,500
8-14-69	18.9	2	282	3.7	39	5.8	7.7	100	100	124					200
8-15-69	15.6	2	292	0.0	0	8.8	7.2	108	140	126			0.90	0.93	13,000
8-16-69													0.74	0.28	26,900
8-18-69	16.1	3	300	0.0	0	11.3	7.3	106	100	158	28	27	0.75	0.42	8,000
8-19-69	16.1	2	312	0.0	0	6.0	7.1	105	100	141					2,100
8-20-69	17.8	4	300	0.0	0	11.5	7.4		140	141					3,200

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-21-69	16.1	7	292	0.0	0	11.2	7.3	106	100	151					2,600
8-22-69	17.2	6	299	0.0	0	10.9	7.5	125	100	150					3,000
8-25-69	23.3	4	309	4.1	47	9.3	7.7	96	35	136	31	30	0.22	0.12	5,100
8-26-69	23.9	3	303	6.6	77	5.1	8.2	95	12	142					1,400
8-27-69	23.3	5	287	5.5	63	3.3	7.9	94	12	134					960
8-28-69	23.3	3	296	3.0	35	4.3	7.5	93	8	131					720
8-29-69	22.8	15	283	2.1	24	4.1	7.5	95	17	135					580
Aug. Avg.	20.2	5	283	2.2	26	6.3	7.6	98	56	133	27	26	0.41	0.36	5,803
Max.	23.9	15	312	6.6	77	11.5	8.4	125	140	158	31	30	0.90	0.93	26,900
Min.	15.6	2	254	0.0	0	2.9	7.1	91	8	118	24	22	0.09	0.0	200
9-2-69	20.0	2	282	0.0	0	11.6	7.4	108	100		21	28	0.50	0.54	1,500
9-3-69	21.0	2	292	0.0	0	9.2	7.4	110	100	149					2,600
9-4-69	20.0	2	294	0.0	0	13.1	7.4	118	200	144					3,800
9-5-69	20.0	2	291	0.0	0	13.4	7.4	110	200						2,800
9-8-69	23.0	3	294	0.9	10	9.7	7.6	100	70	134	26	32	0.15	0.0	1,900
9-9-69	25.0	2	296	8.0	95	3.9	8.4	86	35	131					380
9-10-69	23.0	15	296	7.1	82	2.0	8.3	97	24	133					310
9-11-69	24.0	3	274	7.0	82	3.3	8.4	88	24	128					
9-12-69	24.0	2	274	7.7	90	3.2	8.4	93	17						500
9-15-69	23.0	2	291	8.2	94	3.2	8.4	93	8	130	26	28	0.12	0.0	1,000
9-16-69	23.0	2	288	8.0	92	3.5	8.4	93	8	131					80
9-17-69	23.0	2	281	7.7	88	2.8	8.5	94	8	130					260
9-18-69	23.0	5	281	7.5	86	2.0	8.5	92	12	129					1,700
9-19-69	22.5	10	274	7.6	87	1.5	8.6	88	6	128					
9-22-69	22.0	2	280	8.0	90	2.1	8.4	97	8	120	22	29	0.12	0.0	630
9-23-69	22.0	3	295	8.0	90	1.5	8.3	91	8	121					500
9-24-69	22.0	8	246	8.2	93	2.1	8.5	96	3	122					210

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-25-69	21.0	10	250	8.0	89	2.5	8.4	9	8	126					500
9-26-69	21.0	7	308	8.1	90	4.0	8.3	94	3	124					210
9-29-69	20.5	2	282	8.2	90	2.3	8.3	92	4	133	26	31	0.22	0.0	1,600
9-30-69	20.5	2	299	8.2	90	2.1	8.4	94	4	133					4,800
Sept. Avg.	22.0	4	284	6.0	68	4.7	8.2	93	4	130	24	29	0.22	0.10	1,330
Max.	25.0	15	308	8.2	95	13.4	8.6	118	200	149	26	32	0.50	0.54	4,800
Min.	20.0	2	246	0.0	0	1.5	7.4	9	3	120	21	28	0.12	0.0	80
10-1-69	19.5	8	284	8.2	88	1.7	8.3	92	6	136					1,600
10-2-69	20.0	2	309	7.8	85	2.2	8.3	89	6	133					280
10-3-69	20.5	2	302	8.2	90	2.0	8.3	92	8	131					2,300
10-6-69	20.0	2	291	8.9	97	1.8	8.2	92	6	132	28	30	0.24	0.0	460
10-7-69	20.5	2	293	8.8	97	1.5	8.3	108	8	129					290
10-8-69	20.0	2	282	8.9	97	1.3	8.3	97	4	131					40
10-9-69	20.0	3	290	8.7	95	1.6	8.4	88	6	132					100
10-10-69	20.0	3	289	8.6	94	1.3	8.3	86	4	131					22
10-13-69	20.0	5	309	8.7	95	1.7	8.5	93	4	135	30	30	0.23	0.0	48
10-14-69	20.0	30	289	8.4	91	2.0	8.3	92	12	131					550
10-15-69	20.0	10	299	7.8	85	1.6	8.2	94	8	135					32
10-16-69	19.5	4	291	8.0	86	1.9	8.1	90	8	128					140
10-17-69	19.0	20	298	8.2	88	1.8	8.2	87	8	127					56
10-20-69	18.0	2	297	8.6	90	1.3	8.2	95	6	130	26	27	0.20	0.0	80
10-21-69	18.0	15	297	8.4	88	1.4	8.2	92	8	130					780
10-22-69	17.0	10	298	8.7	90	1.4	8.0	93	6	133					1,000
10-23-69	16.5	60	298	9.1	93	2.1	8.1	94	12	128					160
10-24-69	16.0	10	286	9.4	95	1.4	8.1	94	8	130					160
10-27-69	15.5	15	296	9.6	96	1.5	8.2	92	8	127	24	26	0.42	0.0	150
10-28-69	15.0	5	289	9.4	93	1.2	8.3	91	8	124					310

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-29-69	14.5	5	281	9.8	96	1.3	8.1	92	8	118					370
10-30-69	14.0	4	282	10.0	97	1.3	8.1	94	6	122					190
10-31-69	14.0	4	277	10.4	101	1.4	8.4	94	4	120					97
Oct. Avg.	18.1	12	292	8.8	92	1.6	8.2	93	7	129	27	28	0.27	0.0	400
Max.	20.5	60	309	10.4	101	2.2	8.5	108	12	136	30	30	0.42	0.0	2,300
Min.	14.0	2	277	7.8	85	1.2	8.1	86	4	118	24	26	0.20	0.0	22
11-3-69	14.0	3	275	9.9	96	1.5	8.0	93	4	117	20	23	0.28	0.0	2,000
11-5-69	14.0	5	270	10.0	97	1.6	8.3	95	4	124					1,200
11-6-69	13.5	15	259	10.2	98	1.1	8.2	93	8	112					970
11-7-69	13.5	10	260	10.2	98	1.0	8.2	94	6	114					300
11-10-69	13.0	6	267	10.1	96	1.1	8.3	94	4	130	21	23	0.30	0.0	1,000
11-12-69	13.5	9	255	10.1	97	0.8	8.4	90	6	120					750
11-13-69	13.0	20	262	10.4	99	0.8	8.3	85	4	122					1,600
11-14-69	13.0	5	259	10.1	96	0.8	8.2	90	4	120					930
11-17-69	11.0	4	258	9.9	90	0.9	7.8	85	3	117	18	24	0.14	0.0	590
11-18-69	11.0	3	253	11.0	100	0.8	8.0	86	4	114					160
11-19-69	11.0	3	251	10.9	99	0.9	8.0	86	4						150
11-20-69	11.0	15	249	11.0	100	1.2	8.0	86	4	119					2,200
11-21-69	10.0	50	230	11.3	101	1.2	8.2	87	6	122					320
11-24-69	9	4	250	11.1	81	0.7	8.1	88	4	118	25	22	0.12	0.0	270
11-25-69	9	5	251	11.4	98	1.2	8.1	89	4	125					660
11-26-69	9	3	248	11.3	98	5.0	8.2	89	2	115					92
11-28-69	9	15	260	11.3	98	0.9	8.2	87	4	126					790
Nov. Avg.	11.6	10	256	10.6	96	1.3	8.1	89	4	120	21	23	0.21	0.0	822
Max.	14.0	50	275	11.4	101	5.0	8.4	95	8	130	25	24	0.30	0.0	2,200
Min.	9.0	3	230	9.9	81	0.7	7.8	85	2	112	18	22	0.12	0.0	92

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TO	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-1-69	9.0	20	263	11.6	100	1.0	8.1	87	6	122	25	23	0.46	Trace	980
12-2-69	9.0	30	268	11.5	99	1.2	8.2	89	6	130					110
12-3-69	9.0	15	262	11.8	102	1.0	8.1	87	6	126					3,800
12-4-69	8.0	70	267	11.8	100	1.0	8.2	84	6	126					650
12-5-69	8.0	30	268	11.9	100	1.0	8.2	85	6	124					110
12-8-69	7.5	8	304	11.9	99	0.8	7.9	85	6	120	19	20	0.15	0.0	80
12-9-69	7.0	3	248	11.8	97	0.5	7.9	86	6	118					79
12-10-69	7.0	3	263	12.0	99	0.6	8.0	88	6	128					110
12-11-69	7.0	25	255	11.9	98	0.8	8.0	86	6	120					330
12-12-69	7.0	8	252	12.2	101	0.5	7.9	84	8	120					160
12-15-69	6.0	45	289	12.7	102	1.2	7.9	87	8	124	22	21	2.44	2.10	860
12-16-69	6.5	45	262	12.8	104	1.0	8.2	88		122					390
12-17-69	5.5	6	248	13.0	103	0.4	8.0	87	6	118					99
12-18-69	5.0	4	257	12.9	101	0.5	8.0	87	6	122					60
12-19-69	5.0	25	244	13.1	103	0.5	8.0	87	8	114					470
12-22-69	5.0	4	263	12.5	98	0.9	8.2	92	8	122	26	22	0.10	0.05	210
12-23-69	5.0	15	258	12.8	100	0.6	8.2	93	12	126					170
12-24-69	5.0	30	263	12.5	98	0.8	8.2	92	12	122					350
12-26-69	3.0	15	256	12.2	91	0.5	8.1	89	6	114					98
12-29-69	3.0	9	271	12.9	96	0.9	8.1	88	8	125	27	21	0.24	0.0	64
12-30-69	3.0	10	260	12.7	95	0.5	8.1	90	8	120					62
12-31-69	3.0	40	289	12.7	95	1.3	8.1	90	12	120					250
Dec. Avg.	6.1	21	264	12.3	99	0.8	8.0	88	7	122	24	21	0.67	0.43	431
Max.	9.0	70	304	13.1	104	1.3	8.2	93	12	130	27	23	2.44	2.10	3,800
Min.	3.0	3	244	11.5	91	0.4	7.9	84	6	114	19	20	0.10	0.0	60

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Planktor.
1-2-69	0.5	5	8	220	14.5	100	0.8	7.9	88		118						
1-3-69	0.5	4	4	280	14.5	100	0.7	8.0	88		122					TNC	2,063
1-6-69	0.5	4	4	260	13.8	97	0.5	7.9	92		126					686	2,548
1-7-69	0.5	4	8	225	14.3	99	0.5	8.0	90		126					0	2,094
1-8-69	0.5	3	4	275	14.3	99	0.6	8.0	91		126	22	30	0.04	0.00	33	1,712
1-9-69	0.5	4	4	280	14.4	100	1.1	7.8	90		126					1	1,429
1-10-69	0.5	3	8	305	14.6	101	0.5	8.2	92		130					275	1,519
1-11-69	0.5	3		290	11.0	77	0.5	8.3	92		130					11	1,955
1-13-69	0.5	2	4	292	14.8	103	0.6	8.0	94								
1-14-69	0.5	2	4	280			0.6	8.0	94		128					0	1,078
1-15-69	0.5	2	8	300	14.7	103	0.5	8.0	91		128					0	1,130
1-16-69	0.5	2	4	290	13.7	95	0.5	8.0	90		126	17	27	0.16	0.00	0	516
1-17-69	0.5	1	4		13.3	93	0.6	8.0	90		130					210	918
1-20-69	0.5	1	4	280	13.8	97	0.7	8.0	90		128					3	718
1-21-69	0.5	3	4	295	13.2	91	1.0	8.2	91		128					112	847
1-22-69	0.5	3	4	310	12.8	89	1.4	8.1	92		129					206	1,991
1-23-69	0.5	3	8	285	12.2	84	1.4	8.0	94		126	16	28		0.05	4	1,326
1-24-69	1.1	1	4		13.2	94	0.7	8.0	94		128					10	
1-25-69	1.1	10	8	305	12.9	91	0.6	8.1	92		129					7	1,667
1-27-69	0.5	4	4	315	13.0	90	0.5	7.7	94		130					35	2,564
1-28-69	0.5	4	8	290	13.3	93	0.6	8.1	94		132					2	2,602
1-29-69	0.5	3	8	300	13.1	91	0.5	7.9	93		131	25	29	0.10	0.00	38	1,924
1-30-69	0.5	2	4	320	13.1	91	0.5	7.9	90		128					4	1,296
1-31-69	0.5	2	4		13.2	91	0.6	7.9	89		128					0	977
																7	1,541
Jan. Avg.	0.5	3	5	285	13.5	94	0.7	8.0	91		127	20	28	0.10	0.01	74	1,495
Max.	1.1	10	8	320	14.8	103	1.4	8.2	94		132	25	30	0.16	0.05	686	2,602
Min.	0.5	1	4	220	11.0	77	0.5	7.7	88		118	16	27	0.04	0.00	0	516

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
2-3-69	0.5	1	8	290	13.1	91	0.5	7.8	90		124					3	2,483
2-4-69	0.5	20	8	285	13.0	90	0.6	8.3	92		126					104	3,340
2-5-69	0.5	5	8	280	13.0	90	0.9	8.1	92	165	126	20	24	0.15	0.00	0	1,944
2-6-69	0.5	3	4	280	13.1	91	0.6	8.1	90		126					0	1,748
2-7-69	0.5	2	8		13.2	92	0.7	8.0	90		128					2	2,282
2-10-69	0.5	3	4	265	13.4	93	0.7	8.2	90		126					0	2,478
2-13-69	0.5	3	8	225	13.3	93	0.8	8.1	91	176	126	22	26	0.17	0.00	0	3,386
2-14-69	0.5	3	4	275	13.1	91	0.6	8.1	90		122					3	2,512
2-15-69	0.5	6			13.3	93	0.8	8.1	89		124						
2-17-69	0.5	3	4		13.3	93	0.7	8.0	90		126					18	2,485
2-18-69	0.5	3	8	275	13.2	92	0.7	8.1	90		124					0	2,234
2-19-69	0.5	2	4	280	13.1	91	0.8	8.2	90	164	125	21	25	0.15	0.01	1	1,958
2-20-69	0.5	2	4	272	13.2	92	0.7	8.0	90		122					0	3,169
2-24-69	0.5	2	8		13.2	92	0.8		88		124					0	3,345
2-25-69	0.5	2	4	290	12.8	89	0.7	8.2	90		126					0	1,159
2-26-69	0.5	3	4	280	12.7	88	1.0	7.8	92		122	16	27	0.19	0.01	3	1,067
2-27-69	0.5	3	8	280	12.7	88	1.1	8.1	90		126					11	1,872
2-28-69	0.5	2	4	280	12.8	89	0.8	7.8	90		124					10	1,577
Feb. Avg.	0.5	3	6	275	13.1	91	0.7	8.0	90	168	124	19	25	0.17	0.003	9	2,296
Max.	0.5	20	8	290	13.4	93	1.1	8.2	92	176	128	22	27	0.19	0.01	104	3,386
Min.	0.5	1	4	225	12.7	88	0.5	7.8	88	164	122	16	24	0.15	0.00	0	1,067
3-3-69	0.5	3	8	290	12.6	88	2.2	8.1	90		126					0	3,034
3-4-69	0.5	6	8	295	12.3	86	1.7	8.2	90		124					0	2,579
3-5-69	0.5	15	8	300	11.8	82	3.4	8.0	90		130					10	2,448
3-6-69	0.5	10	8		11.9	83	2.8	7.8	90		130	29	25		0.0	10	2.147
3-7-69	0.5	10	12	295	12.0	84	3.0	8.0	88		130					50	2,446
3-10-69	0.5	10	12		12.3	86	3.0	7.7	92		132					0	1,434

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
3-11-69	0.5	10	12	305	12.1	84	2.8	8.1	91		134					55	1,650
3-12-69	0.5	5	8	250	11.8	82	2.5	7.8	90		134	29	28	0.14	0.04	320	1,658
3-13-69	0.5	6	8	290	12.2	85	2.3	7.9	92		134					2	1,463
3-14-69	0.5	4	4		11.8	82	2.6	7.9	92		128					11	1,860
3-17-69	0.5	2	8		12.9	90	3.0	7.8	90		126					24	2,704
3-18-69	0.5	2	4	275	12.7	88	1.7	8.2	90		124					111	2,292
3-19-69	0.5	2	8	270	12.8	89	2.2	8.1	92		126	21	20	0.40	0.01	1.115	2,321
3-20-69	1.1	3	8	290	12.7	90	1.7	8.1	92		128					370	1,753
3-21-69	1.1	5		315	13.2	93	1.4	8.3	90		140					165	3,006
3-24-69	1.1	5	8	325	12.8	91	2.6	7.9	90		130					15	2,212
3-25-69	1.1	5	8	295	12.5	89	2.4	8.1	88		124					5	2,621
3-26-69	1.1	20	12	295	12.3	87	2.6	8.1	83		122					11	2,839
3-27-69	1.1	10	8	290	13.7	97	1.6	8.0	86		122					5	2,990
3-28-69	1.1	5	12	300	13.0	92	0.9	8.3	90		128					0	1,414
3-31-69	2.2	25	12	310	12.8	93	1.1	8.1	88		124					10	1,877
Mar. Avg.	0.8	8	9	294	12.5	88	2.3	8.0	90		128	26	24	0.27	0.02	109	2,226
Max.	2.2	25	12	325	13.7	97	3.4	8.3	92		140	29	28	0.40	0.04	1,115	3,034
Min.	0.5	2	8	250	11.8	82	0.9	7.7	83		122	21	20	0.14	0.01	0	1,414
4-1-69	2.2	6	8	295	12.9	94	1.6	8.2	90		130					3	2,775
4-2-69	2.2	4	8	280	12.9	94	1.2	8.1	90		124					0	1,910
4-3-69	1.6	3	8	290	12.9	93	1.4	8.2	88		126					2	1,958
4-4-69	1.6	6	8	285	12.4	89		8.2	88		122					0	2,365
4-7-69		2	4	280	12.4		0.8	8.1	90		126					250	1,529
4-8-69	3.8	9	12	280	11.7	89	1.4	8.2	86		122					255	2,211
4-9-69	5.0	20	8	280	12.1	95	1.6	8.3	88	194	120	23	22	0.15	0.0	120	1,624
4-10-69	4.4	3	8	275	12.3	95	1.5	8.0	84		120					30	1,755

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
4-11-69	3.8	2	12	295	12.7	97	1.3	8.3	88		122					3	1,481
4-14-69	6.1	4	8	275	12.1	98	2.1	8.2	88		122					610	1,479
4-15-69	6.1	4	8		12.3	99	1.8	8.3	86		128					20	1,432
4-16-69	6.1	4	8	290	12.1	98	1.3	8.3	78	180	118	22	24	0.28	0.0	41	1,192
4-17-69	6.1	2	8	290	12.7	102	0.6	8.5	90		122					5	1,482
4-18-69	6.1	2	8	290	12.5	101	0.7	8.5	90		126					17	1,653
4-21-69	6.1	9	12	280	9.2	74	1.5	8.2	85		126					30	3,065
4-22-69	6.6	7	12	275	9.7	79	1.2	8.3	88		124					0	
4-23-69	6.6	9	12	300	12.3	100	1.0	8.4	88	180	122	23	24	0.25	0.0	20	1,732
4-24-69	7.2	25	12	285	12.0	99	0.7	8.2	88		122					122	3,064
4-25-69	7.7	20	12	280	12.0	101	1.0	8.1	84		120					255	2,351
4-28-69	7.7	15	4	265	11.0	92	1.2	8.0	80		118					63	2,160
4-29-69	7.7	10	4	265	9.5	80	1.2	8.0	80		118					46	
4-30-69	8.8	10	12	280	10.8	93	1.3	8.3	86	166	118	20	21	0.40	0.25	14	2,041
Apr. Avg.	5.4	8	9	283	11.8	93	1.3	8.2	87	180	123	22	23	0.27	0.06	94	1,963
Max.	8.8	25	12	300	12.9	102	2.1	8.5	90	194	130	23	24	0.40	0.25	610	3,065
Min.	1.6	2	4	265	9.2	74	0.6	8.0	78	166	118	20	21	0.15	0.0	0	1,192
5-1-69	8.8	7	8	290	10.8	93	1.2	8.0	82		118					14	2,979
5-2-69	9.4	6	12	270	11.0	96	1.2	8.1	86		120					700	3,258
5-5-69	10.0	6	1	290	11.3	100	1.0	8.1	86		122					180	2,600
5-6-69	10.5	6	4	290	10.9	98	1.3	8.0	88		120					1,280	2,482
5-7-69	10.5	5	2	295	11.1	100	1.3	8.0	88	162	120	23	23	0.28	0.13	154	4,341
5-8-69	10.5	5	4	275	10.8	97	1.3	7.9	86		124					107	2,589
5-9-69	10.0	4	2	285	10.7	95	1.5	8.2	88		126					235	4,630
5-12-69	10.5	7	4	275	10.9	98	1.0	8.1	84		122					505	3,649
5-13-69	10.5	5		280	10.7	96	1.0	8.2	88		126					110	4,221
5-14-69	11.1	4		295	10.5	96	1.0	8.3	90	166	124	20	24	0.13	0.0	115	5,212

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
5-15-69	11.6	4		310	10.4	96	1.1	8.1	90		122					40	8,061
5-16-69	12.2	3	4	290	10.4	97	0.9	8.3	88		128					96	4,269
5-17-69	12.2	4		285	10.5	98	0.9	8.1	90		126						
5-19-69	11.6	2	8	310	10.1	93	1.2	8.1	88		124					3,750	3,830
5-20-69	12.2	2	4	285	10.2	95	1.3	8.3	86		128					110	4,678
5-21-69	12.6	9		290	10.5	99	1.4	8.1	88	202	130	21	24	0.45	0.11		4,531
5-22-69	13.3	10	4	295	10.3	98	1.2	8.0	88		126					1,680	4,425
5-23-69	13.3	6	4	280	9.8	94	1.9	8.0	86		122					660	2,853
5-24-69	12.6	5		290	9.9	93	1.6	8.1	88		122						
5-26-69	13.3	7	12	285	10.3	98	1.3	8.3	82		126					350	1,637
5-27-69	13.3	5	12	292	10.3	98	1.1	7.9	82		128					220	1,022
5-28-69	13.3	5	12	290	10.0	96	1.2	8.4	84	198	124	23	23	0.26	0.06	450	1,045
5-29-69	13.3	3	12	310	10.1	97	1.3	8.3	82		126					1,760	1,000
5-31-69	14.4	3		310	10.4	102	1.5	8.1	86		124						
May Avg.	11.7	5	6	290	10.4	96	1.2	8.1	86	182	124	22	24	0.28	0.08	626	3,491
Max.	14.4	10	12	310	11.3	102	1.9	8.4	90	202	130	23	24	0.45	0.13	3,750	8,061
Min.	8.8	2	1	270	9.8	93	0.9	7.9	82	162	118	20	23	0.13	0.0	14	1,000
6-2-69	14.4	2	12	325	10.0	98	1.9	8.0	86		130					940	744
6-3-69	15.5	2	12	310	9.8	98	1.5	8.0	88		126					360	828
6-4-69	15.0	1	4	320	9.9	98	1.7	8.3	88	236	124	27	25	0.22	0.0	260	514
6-5-69	14.4	2	8	300	9.7	95	1.5	8.4	86		128					80	604
6-6-69	15.0	5		300	9.8	97	1.5	8.4	84		128					200	3,349
6-7-69	16.0	4		280	9.8	99	1.2	8.[illegible]	84		124						
6-9-69	16.0	3	8	300	9.7	98	1.8	8.[illegible]	88		124					320	349
6-10-69	16.0	4	8	290	9.5	96	1.6	8.2	90		124					275	5,194
6-11-69	16.0	3	8	300	9.3	94	1.6	8.1	86	186	120	25	27	0.16	0.05	140	2,618
6-12-69	16.0	3	4	315	9.4	95	1.6	8.3	90		122					25	467

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
6-13-69	16.4	3	12				1.5										369
6-16-69	16.4	2	12	320	9.1	93	1.6	8.1	86		128					300	556
6-17-69	16.4	2	12	300	9.0	92	1.8	8.0	90		128					180	535
6-18-69	16.1	2	8	310	9.1	92	1.5	8.0	88	154	124	25	28	0.11	0.11	720	424
6-19-69	16.1	2	8	310	9.1	92	1.4	8.0	86		134					1,000	348
6-20-69	16.4	2	17	280	8.9	91	1.5	8.1	90		120					1,920	372
6-21-69	16.4	2		290	9.0	92	1.5	8.3	92		118						
6-23-69	15.5	3	8	320	8.8	88	1.6	8.1	88		130					2,480	345
6-24-69	16.1	3		310	8.6	87	1.2	8.2	92		130					0	373
6-25-69	16.1	2		270	8.7	88	1.2	8.2	88	166	126	25	25	0.13	0.0	13,000	340
6-26-69	17.2	3		320	8.8	91	1.3	8.1	88		128					26,000	406
6-27-69	17.2	2		320	8.8	91	1.4	8.1	88		128					11,080	322
6-28-69	17.7	3		310	8.7	91	1.7	8.2	90		124						
6-29-69	18.3	2		310	8.5	90	1.4	8.1	86		122					9,440	366
June Avg.	16.1	3	9	304	9.2	92	1.5	8.2	88	186	126	26	26	0.16	0.04	3.436	925
Max.	18.3	5	17	325	10.0	99	1.9	8.4	92	236	134	27	28	0.22	0.11	26,000	5,194
Min.	14.4	1	4	270	8.5	87	1.2	8.0	84	154	118	25	25	0.11	0.0	0	322
7-1-69	18.3	2		310	10.5	111	1.3	8.2	86		122					6,760	1,596
7-2-69	17.2	1		325	8.8	91	1.2	8.3	88	180	122	21	24	0	0.60	200	881
7-3-69	17.7	2	4	280	8.7	91	1.4	8.1	72		128					3,320	6,460
7-7-69	18.3	2	8	280	8.7	92	1.4	8.3	78		126					4,600	546
7-8-69	15.0	4	8	320	9.2	91	1.0	8.2	84		126					1,320	1,059
7-9-69	16.1	3	8	290	8.4	85	1.3	8.1	88	190	124	22	26	0.15	0.0	4,200	4,076
7-10-69	17.2	2	8	315	8.7	90	1.1	8.1	70		126					1	1,466
7-11-69	17.8	3	8	340	8.5	89	1.1	8.2	84		130					1	1,241
7-12-69	18.3	3		320	8.4	89	1.1	8.2	88		128						1,111
7-14-69	20.0	10	4	290	8.3	90	2.3	7.9	84		124					1,800	1,424

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
7-15-69	20.5	8	4	260	8.1	89	2.0	7.6	84		124					2,700	1,562
7-16-69	20.5	4	8	300	8.1	89	1.8	8.1	82	204	124	22	25	0	0.30	3,300	1,789
7-17-69	20.5	4	4	270	7.9	87	1.2	7.8	80		128					1,300	2,464
7-18-69	20.5	4	4	270	7.6	84	1.8	7.4	84		120					1,500	2,272
7-19-69	20.5	5	4	290	8.0	88	1.5	7.9	84		126						
7-22-69	19.4	2	4	260	7.6	82	1.3	7.5	74		128					200	1,969
7-23-69	17.7	1	4	315	8.0	83	1.0	7.7	78	186	130	23	26	0.16	.03	506	2,046
7-24-69	19.4	2	4	270	7.5	81	1.3	7.8	76		126					2,013	1,516
7-25-69	19.4	1	4	290	7.8	84	1.1	8.0	80		128					693	1,454
7-26-69	20.5	3	-	290	7.5	82	1.3	7.8	88		126						
7-28-69	22.7	3	4	270	7.1	81	1.5	7.7	74		124					3,800	3,105
7-29-69	23.8	2	4	300	8.2	95											2,504
7-30-69	23.3	1	4	260	8.0	92	1.4	8.3	80	206	124	25	23	0	0.11	5,900	2,067
7-31-69	23.3	1		320	8.1	94	2.0	8.4	80		128					5,600	5,600
July Avg.	19.5	3	5	293	8.2	89	1.4	8.0	81	193	126	23	25	0.16	0.26	2,486	2,055
Max.	23.8	10	8	340	10.5	111	2.3	8.4	88	206	130	25	26	0.16	0.60	6,760	6,460
Min.	15.0	1	4	260	7.1	81	1.0	7.4	70	180	120	21	23	0.15	0.0	1	546
8-1-69	23.3	1	12	330	8.8	102	3.5	8.0	82		132					2,700	2,084
8-2-69	23.8	2	12	310	8.2	95	2.7	7.9	84		124						2,419
8-4-69	23.8	1	12	300	8.0	93	2.0	8.4	82		126					6,000	2,884
8-5-69	23.3	1	12	315	7.8	90	2.0	8.4	80		130					15,000	2,326
8-6-69	23.9	1	12	310	9.0	105	2.4	7.8	82	176	128	22	22	0.10	.07	54,000	2,431
8-7-69	24.4	1	8	280	8.0	94	2.6	7.8	76		130						1,820
8-8-69	24.4	1	8	285	8.7	102	2.5	8.2	78		128					374	1,482
8-11-69	23.3	1	8	285	8.3	96	3.0	8.2	74		144					143	1,860
8-12-69	23.8	1	12	285	8.0	93	2.2	8.2	78		138					473	1,709
8-13-69	23.8	1	12	275	8.4	98	3.4	8.0	70	168	138	22	25	0.10	0.0	138	2,280

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
8-14-69	23.7	1	12	285	7.4	86	3.2	8.2	78		128					1,287	2,811
8-15-69	23.7	1	8	280	7.5	87	3.1	7.7	70		128					187	1,753
8-18-69	23.7	15	12	295	7.1	83	3.6	8.1	78		124					132	3,118
8-19-69	23.7	1	12	300	7.1	83	3.1	8.2	80		130					540	2,323
8-20-69	23.7	1	8	300	7.6	88	0.4	8.1	86		132					176	2,622
8-21-69	23.7	1	8	290	7.8	91	1.7	8.3	82		128					178	2,989
8-22-69	23.3	1	12	285	7.4	85		8.6	78		128					53	2,009
8-25-69	23.8	1	12	290	7.6	88	2.5	8.5	88		126					84	2,414
8-26-69	23.8	2	8	305	8.0	93	2.1	8.5	84		122					1,660	1,987
8-27-69	23.8	1	8	280	8.1	94	2.3	8.5	90	154	120	26	23	0	0.01	300	2,010
8-28-69	24.6	1	8	290	7.9	93	1.9	8.2	64		136					1,300	2,449
8-29-69	23.8	1	8	300	8.0	93	1.8	8.3	86		128						1,693
8-30-69	24.6	2		295	7.4	87	1.6	8.4	90		124						1,965
Aug. Avg.	23.8	2	10	294	7.9	92	2.4	8.2	80	166	129	23	23	.007	0.03	4,459	2,236
Max.	24.6	15	12	330	9.0	105	3.6	8.6	90	176	144	26	25	.10	0.07	54,000	3,118
Min.	23.3	1	8	275	7.1	83	0.4	7.7	64	154	120	22	22	0.0	0.0	53	1,482
9-2-69	23.9	1	8	300	7.5	87	0.6	8.4	74		136					264	2,310
9-3-69	23.9	1	8	290	7.4	86	0.7	8.6	70		126					33	1,874
9-4-69	24.4	1	8	300	7.5	88	1.2	8.4	74		136					205	1,394
9-5-69	24.4	0	8	290	7.3	86	1.5	8.3	76		136						2,538
9-6-69	23.9	1	8	285	7.1	83		8.2	84		128						1,529
9-8-69		1	4	290	7.2			8.5	80		132					200	2,121
9-9-69		2	8	290	7.0			8.3	88		120					325	1,562
9-10-69		2	8	285	7.1			8.4	80		122					85	1,644
9-11-69		1	8	280	6.7			8.6	80		130					0	1,571
9-12-69	23.0	1	8	290	8.0	92		8.5	82		124						
9-15-69	23,0	1	8	290	[illegible]	92		8.3	86		126					<10	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
9-16-69	24.0	3	8	295	8.0	93		8.3	88		130					40	1,031
9-17-69	23.0	2	4	285	8.0	92		8.3	84	190	128	26	27	0	0.0Tr	0	875
9-18-69	23.0	3	4	280	8.0	92		8.1	88		124					0	995
9-19-69	22.0	1	4	270	8.0	90		8.1	82		124					0	1,111
9-20-69	22.0	1	8	295	8.0	90		8.2	86		126						
9-22-69	22.0	2	4	300	8.0	90		8.2	88							15	1,343
9-23-69	22.0	3	4	310	8.0	90		8.3	84							10	1,126
9-24-69	22.0	1	4	260	8.0	90		8.3	84	198	132	22	26	0 Tr	0.0Tr	261	1,231
9-25-69	21.0	3	4		8.0	89											
9-26-69	22.0	2	4														
9-27-69	21.0	3		275	8.0	89		8.4	88		130						1,056
9-29-69	21.0	3	4		8.0	89										0	
9-30-69	21.0	2	4		8.0	89										58	
Sept. Avg.	22.6	2	6	288	7.7	89	1.0	8.3	82	194	128	24	27	0	0	84	1,460
Max.	24.4	3	8	310	8.0	93	1.5	8.6	88	198	136	26	27	0	0	325	2,538
Min.	21.0	0	4	260	6.7	83	0.6	8.1	70	190	120	22	26	0	0	0	875
10-1-69	18.3	2	4													280	1,636
10-2-69	18.9	2	4	305	8.4	90	1.1	8.2	86		124		25		0.003	440	1,402
10-3-69	18.9	2	4	290	9.0	96	2.6	8.0	88		118					340	1,120
10-6-69	18.9	2	4	325	8.4	90	2.2	8.1	84		136					323	1,257
10-7-69	18.3	2	4	280			1.6	8.1	82		120					300	1,324
10-8-69	18.3	2	4	315	9.1	96	1.4	8.1	80	122	130	24	32	0.25	0.00	392	1,111
10-9-699	18.3	2	4	290	9.2	97	1.1	8.1	82		128					460	1,218
10-10-69	18.3	2	4	280	9.3	98	0.9	8.1	82		128					120	1,511
10-13-69	18.3	2	4	280	9.3	98	0.8	7.8	86		130					185	812
10-14-69	18.3	6	8	245	9.3	98	1.0	8.0	88		128					548	860
10-15-69	17.8	3	4	280	9.3	97	1.1	7.8	86	194	130	21	28	0.25	0.60	587	1,197

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	T Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. MN	T. Coli.	Plankton
10-16-69	17.8	3		280	9.2	96		8.1	88		126					132	925
10-17-69	17.2	10		290			1.6	8.0	90		124					1,660	897
10-20-69	16.1	0.4		280	9.4	95	0.8	8.1			122					340	1,052
10-21-69	16.1	15	4	260	9.6	97	0.8	8.2	86		130					260	1,476
10-22-69	16.1	15					0.9	8.2	84	216	126	23	26	0.11	0.28	820	
10-23-69	15.0	30		275	9.2	91	1.3	8.0	86		136					380	1,289
10-24-69	14.4	8		270	10.1	99	0.6	8.3	88		132					660	1,252
10-27-69	13.9	10		290	10.3	100	0.6	8.2	86		130					220	1,244
10-28-69	13.9	7		280	9.6	93	0.8	8.3	90		128					481	1,047
10-29-69	12.3	7		260	10.0	94	0.9	8.1	88	190	132	24	29	0.15	0.10	1,160	1,156
10-30-69	13.9	6		250	9.9	96	0.8	8.0	90		132					1,660	1,383
10-31-69	11.6	6		265	10.2	94	1.5	7.9	90		132					160	1,266
Oct. Avg.	16.6	10	4	280	9.5	96	1.2	8.1	86	181	128	23	28	0.19	0.20	517	1,202
Max.	18.9	31	8	325	10.3	100	2.6	8.3	90	216	136	24	32	0.25	0.60	1,660	1,636
Min.	11.6	0.4	4	245	8.4	90	0.6	7.8	80	122	118	21	25	0.11	0.003	120	812
11-3-69	11.7	4		230	9.5	88	0.7	8.2	90		126					119	840
11-5-69	11.7	5	8	220	10.0	92	0.7	8.4	88	172	124	27	22	0.20	0.10	257	741
11-6-69	11.1	6	8	220	10.1	92	1.1	8.1	86		124					300	807
11-7-69	11.1	9	8	225	9.9	90	1.0	8.5	90		124					540	643
11-10-69	11.1	5	8	220	10.0	91	1.1	8.0	88		124					139	642
11-12-69	11.1	4	8	220	10.1	92	0.5	8.1	82	158	118	20	23	0.10	0.08	300	648
11-13-69	10.6	9	8	215	10.2	92	1.3	8.1	86		124					158	637
11-14-69	10.0	4	4	210	10.3	91	1.0	8.1	80		122						828
11-17-69	9.4	4	8	215	10.4	91	1.2	8.0	90		124					66	806
11-18-69	9.4	3	4	205	10.4	91	1.1	8.2	86		118					191	756
11-19-69	9.4	2	4	220	10.4	91	0.8	8.1	86	148	120	21	23	0.00	0.10	155	720
11-20-69	8.9	15	4	200	9.8	84	1.0	7.9	90		120					100	704

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	T Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. MN	T. Coll.	Plankton
11-21-69	8.9	35	4	210	10.4	90	1.0	7.9	90		128					170	7[illegible]
11-24-69	7.2	6	8	205	10.8	89	1.0	7.9	88		120					130	715
11-25-69	7.2	4	8	235	11.0	91	0.9	8.3	88	162	118	23	20	0.08	0.10	80	735
11-26-69	7.2	10		280			1.0	8.1	80		122					320	822
Nov. Avg.	9.8	8	7	221	10.2	90	1.0	8.1	87	160	122	23	22	0.10	0.10	202	737
Max.	11.7	35	8	280	11.0	92	1.3	8.5	90	172	128	27	23	0.20	0.10	540	840
Min.	7.2	2	4	200	9.5	84	0.5	7.9	80	148	118	20	20	0.00	0.08	66	637
12-2-69	6.6	55	17	230	11.5	94	1.3	8.0	88	124						740	724
12-3-69	5.5	35	12	265	11.3	90	0.8	8.0	80	234	132	25	25	0.00	0.00	250	689
12-4-69	5.5	55	8	260			2.0	8.0	88		126					1120	686
12-5-69	4.4	50	12	245	11.7	90	1.2	7.9	88		128					125	867
12-8-69	4.4	20	8	260	11.6	90	0.9	7.9	92		126					80	768
12-9-69	4.4	8	12	235	12.1	94	1.0	7.9	88		116					15	867
12-10-69	4.4	9	12	240	12.1	94	0.9	8.0	82	160	124	24	22	0.62	0.00	175	778
12-11-69	4.4	15	12	250			1.3	8.0	86		122					135	1113
12-12-69	3.9	15	12	250	12.4	95	0.8	8.1	86		126					10	1289
12-16-69	2.8	12					1.2									105	1140
12-17-69	2.8	8	12	255	12.6		1.4	8.0	82	158	114	21	18	0.18	0.02	55	1354
12-18-69	2.8	4	17	270	12.4	92	1.0	8.0	86		122					25	1215
12-19-69	2.2	20	12	250	12.7	93	1.1	8.0	88		122						1196
12-22-69	1.7	10	17	215	12.2	88	0.9	8.0	90		124					50	1264
12-23-69	1.7	10	8	270	12.8	92	2.1	7.9	88	160	130	21	19	0.45	0.02	1840	1019
12-24-69	1.7	30	12	235	12.7	91	1.2	7.8	86		124					80	1059
12-26-69	0.6	15	8		12.2	85										10	920
12-29-69	0.6	10															927
12-30-69	0.6	10	8													0	759
12-31-69	0.6	30	12													40	592

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	T Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. MN	T. Coli.	Plankton
Dec. Avg.	3.1	21	12	249	12.2	91	1.2	8.0	87	167	124	23	21	0.31	0.01	270	961
Max.	6.6	55	17	270	12.8	95	2.1	8.1	92	234	132	25	25	0.62	0.02	1120	1354
Min.	0.6	4	8	215	11.3	85	0.8	7.8	80	124	114	21	18	0.00	0.00	0	592

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
1-1-69	0.6	45	0				-	-	-	189						-
1-2-69	0.6	20	0				0.7	8.5	97							9
1-3-69	0.6	6	0				0.5	8.6	97							4
1-4-69	0.6	6	0				0.5	-	-							0
1-5-69	0.6	7	0				-	-	-							-
1-6-69	0.6	8	0				0.5	8.5	94							15
1-7-69	0.6	9	0				0.5	8.4	93							9
1-8-69	0.6	5	0				0.6	8.4	93							150
1-9-69	0.6	4	0				0.4	8.5	91							150
1-10-69	0.6	4	0	310			0.4	8.3	97							7
1-11-69	0.6	3	0	320			0.5	-	-							0
1-12-69	0.6	3	-	-			-	-	-							-
1-13-69	0.6	4	0	300			0.5	8.3	96							4
1-14-69	0.6	4	0	340			0.6	8.4	97							4
1-15-69	0.6	4	0				0.5	8.2	97							0
1-16-69	0.6	4	0				0.7	8.2	97							4
1-17-69	0.6	4	0				0.5	8.4	96							0
1-18-69	1.1	3	0				0.6	-	-							23
1-19-69	1.1	2	-				-	-	-							-
1-20-69	1.1	3	0				1.2	8.4	93							1,100
1-21-69	1.1	2	0				0.8	-	-							460
1-22-69	1.1	2	0				1.0	8.4	96							1,100
1-23-69	1.1	2	0				0.9	-	-							240
1-24-69	1.1	3	0				0.8	8.4	94							460
1-25-69	1.1	15	0				1.3	-	-							1,100
1-26-69	1.1	9	-				-	-	-							-
1-27-69	1.1	6	0				0.9	8.3	96							15
1-28-69	1.1	4	0				0.8	8.3	96							11
1-29-69	1.1	4	0				0.7	8.3	95							7

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
1-30-69	1.1	4	0				0.6	8.3	95							0
1-31-69	1.7	4	0				0.5	8.3	97	189	132	24	27	0.14	-	3
Jan. Avg.	0.8	7	0	318			0.7	8.4	95	189	132	24	27	0.14		188
Max.	1.7	45	0	340			1.3	8.6	97	189	132	24	27	0.14		1,100
Min.	0.6	2	0	300			0.4	8.2	91	189	132	24	27	0.14		0
2-1-69	1.7	4	0				0.9	-	-							
2-2-69	1.7	3	0				0.9	-	-							
2-3-69	1.1	2	0				0.7	8.4	95							
2-4-69	0.6	55	0				0.8	8.4	96							
2-5-69	1.1	7	0				0.9	8.4	94							
2-6-69	0.6	7	0				1.0	8.3	94							
2-7-69	0.6	7	0				0.9	8.2	94							
2-8-69	0.6	4	0				1.0	-	-							
2-9-69	0.6	4	0				1.1	8.2	94							
2-10-69	1.1	4	0				-	-	-							
2-11-69	1.1	4	0				1.1	8.2	94							
2-12-69	1.1	4	0				-	-	-							
2-13-69	1.1	3	0				0.8	8.1	92							
2-14-69	1.1	3	0				0.8	8.1	92							
2-15-69	1.1	3	0				0.9	-	-							
2-16-69	1.1	3	0				-	-	-							
2-17-69	1.1	3	0				1.1	8.3	95							
2-18-69	1.1	3	0				1.1	8.3	95							
2-19-69	0.6	2	0				1.1	8.1	95							
2-20-69	1.1	3	0				1.1	8.1	95							
2-21-69	1.1	3	0				1.4	-	-							
2-22-69	1.1	3	0				2.4									

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-23-69	1.1	3	0				1.4	-	-							
2-24-69	1.1	3	0				-	-	-							
2-25-69	1.1	3	0				1.3	8.2	93							
2-26-69	1.1	3	0				1.5	8.2	93							
2-27-69	1.1	4	0				1.7	8.2	94							
2-28-69	1.1	4	0	288			1.5	8.2	94	175	128	25	24	0.12	0.0	163
Feb. Avg.	1.0	6	0	288			1.1	8.2	94	175	128	25	24	0.12	0.0	163
Max.	1.7	55	0	288			2.4	8.4	96	175	128	25	24	0.12	0.0	163
Min.	0.6	2	0	288			0.7	8.1	92	175	128	25	24	0.12	0.0	163
3-1-69	1.1	3					1.9									
3-2-69	1.1	3					2.0									240
3-3-69	1.1	3	2				1.8	8.2	94							1,500
3-4-69	1.1	4	2				2.3	8.2	92							460
3-5-69	1.1	5	1				1.1	8.2	93							43
3-6-69	1.1	4	1				2.4	8.2	93							240
3-7-69	1.1	4	3				2.6	8.1	94							1,100
3-8-69	1.1	3	6				2.3	8.1	92							240
3-9-69	1.1	3					2.6									
3-10-69	1.1	4	4				2.4	8.1	92							93
3-11-69	1.1	4	2				2.2	8.1	92							39
3-12-69	1.1	3	4				1.9	8.1	92							93
3-13-69	1.1	2	4				1.5	8.1	92							43
3-14-69	1.1	2	2				1.4	8.1	92							15
3-15-69	1.1	2	2				1.4									9
3-16-69	1.1	2					1.1									
3-17-69	1.1	2	2				0.8	8.4	92							0
3-18-69	1.1	2	0	442			0.7	8.6	89		143					0
3-19-69	1.1	2	2				1.0									4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-20-69	1.1	2	2				0.8									0
3-21-69	1.7	8	2				1.7									28
3-22-69	1.7	7	2				2.1									240
3-23-69	1.7	4					1.7									
3-24-69	1.7	4	2				1.9									9
3-25-69	1.7	5	1	291			2.0	8.4	92							23
3-26-69	1.1	10	2	296			2.3	8.4	93							43
3-27-69	1.7	10	1				2.1	8.3	93							4
3-28-69	2.2	10	2				1.4									9
3-29-69	2.2	10	2				0.9									4
3-30-69	1.7	7					1.0									
3-31-69	1.7	15	1				1.1	8.5	93	196	130	28	31	0.20	0.0	9
Mar. Avg.	1.3	5	2	343			1.7	8.2	92	196	137	28	31	0.20	0.0	173
Max.	2.2	15	6	442			2.6	8.6	94	196	143	28	31	0.20	0.0	1,500
Min.	1.1	3	0	291			0.7	8.1	89	196	130	28	31	0.20	0.0	0
4-1-69	2.8	6	1				1.1	8.4	89							
4-2-69	2.8	4	1				1.1	8.4	90							
4-3-69	2.2	3	3				0.9	8.4	89							
4-4-69	2.2	3	1				0.8	8.3	88							
4-5-69	2.8	3	2				1.0									
4-6-69	2.8	3					0.9									
4-7-69	3.9	3	1				1.0	8.2	88							
4-8-69	3.9	3	1				1.6	8.2	88							
4-9-69	3.9	3	2				1.4	8.2	88							
4-10-69	4.4	7	1				1.6									
4-11-69	5.0	9	1				1.2									
4-12-69	5.0	6					0.9									
4-13-69	5.6	7					1.3									

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-14-69	5.6	6					1.6	8.1	92							
4-15-69	5.6	6	1				1.7	8.1	92							
4-16-69	5.6	3	1				1.6									
4-17-69	6.1	2	1				1.2	8.1								
4-18-69	6.1	9	1				1.1									
4-19-69	6.1	45	1				1.8									
4-20-69	6.1	20					1.3									
4-21-69	6.1	20	1				1.4	8.2	87							
4-22-69	6.1	15	1				1.3	8.1	86							
4-23-69	6.1	20	1				1.2	8.0	86							
4-24-69	7.2	15	1				2.6									
4-25-69	7.2	20	1				1.5	8.0	85							
4-26-69	7.2	15	1				1.1									
4-27-69	7.2	15					1.1									
4-28-69	8.9	10	1				1.2	8.0	82							
4-29-69	8.9	10	1				1.2									
4-30-69	8.9	10	1	285			1.2	8.0	82	179	122	25	25	0.10		12
Apr. Avg.	5.4	10	1	285			1.3	8.2	87	179	122	25	25	0.10		12
Max.	8.9	45	3	285			2.6	8.4	92	179	122	25	25	0.10		12
Min.	2.2	2	1	285			0.8	8.0	88	179	122	25	25	0.10		12
5-1-69	8.3	8	1				1.2	8.0	87							0
5-2-69	8.3	7	1				1.2	8.0	88							0
5-3-69	8.9	6	1				1.4									240
5-4-69	9.4	7														
5-5-69	8.9	6	1				1.6	7.9	85							43
5-6-69	8.3	5	1				1.3	8.0	87							15
5-7-69	8.3	4	1				0.9	8.0	87							4
5-8-69	10.6	4	1				0.9									9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
5-9-69	10.6	15	1				1.3									4
5-10-69	10.6	30	1				0.9									23
5-11-69	10.6	20														
5-12-69	10.6	9					0.9									15
5-13-69	10.6	5	1				0.9	8.0	91							9
5-14-69	10.6	5	1				1.3									4
5-15-69	10.0	4	1				1.0	8.1	91							4
5-16-69	10.6	3	1				0.8									7
5-17-69	10.6	4					0.8									9
5-18-69	10.6	4														
5-19-69	11.1	4	1				1.0	8.1	91							4
5-20-69	11.1	3	1				1.0	8.1	91							43
5-21-69	10.6	3	1				1.1	8.2	92							0
5-22-69	8.9	3	1				1.1	8.2	92							4
5-23-69	8.9	2					1.0									23
5-24-69	8.9	2					1.2									43
5-25-69	9.4	2					1.0	8.0	90							4
5-26-69	10.6	3	1													4
5-27-69	10.6	3	1				1.0	8.0	90							
5-28-69	9.4	3	1				0.9	8.0	91							4
5-29-69	11.1	3	1				0.9	8.0	91							4
5-30-69	11.7	5														
5-31-69	11.7	4		290			1.3			182	124	24	24	0.10	0.0	240
May Avg.	10.0	6	1	290			1.1	8.0	90	182	124	24	24	0.10	0.0	29
Max.	11.7	30	1	290			1.6	8.2	92	182	124	24	24	0.10	0.0	240
Min.	8.3	2	1	290			0.8	7.9	85	182	124	24	24	0.10	0.0	0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-1-69	11.7	4					1.5									
6-2-69	14.4	3	1				1.4	7.9	90							
6-3-69	14.4	3	1				1.8	8.1	89							
6-4-69	14.4	5	1													
6-5-69	14.4	4	2				1.4	8.1	90							
6-6-69	14.4	3						8.1	90							
6-7-69	14.4	3	4				1.2									
6-8-69	14.4	2					1.1									
6-9-69	13.9	3	2				1.1	8.1	90							
6-10-69	12.8	3	1				1.2	8.1	90							
6-11-69	13.3	4	2				1.1	8.0	90							
6-12-69	13.9	3	1				1.4	8.0	91							
6-13-69	13.9	4	1					8.0	91							
6-14-69	13.9	4	2				1.2									
6-15-69	13.3	4					1.2									
6-16-69	13.3	4	2				1.3	7.9	90							
6-17-69	12.8	5	1				1.6									
6-18-69	14.4	5	1				1.5	8.0	91							
6-19-69	15.6	4					1.8	8.0	91							
6-20-69	15.6	5						8.0	91							
6-21-69	15.6	4	1													
6-22-69	13.9	4					1.3									
6-23-69	13.3	3	1				1.4	7.8	90							
6-24-69	12.2	4	1				1.4	7.8	90							
6-25-69	11.7	4	1				1.4	7.9	90							
6-26-69	12.8	4	1				1.4	7.9	92							
6-27-69	12.8	4						8.0	92							
6-28-69	16.7	3					1.5									
6-29-69	17.8	3					1.2									
6-30-69	17.2	2	1	282			1.2	8.0	91	187	126	25	25	0.02		29

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
June Avg.	14.1	4	1	282			1.4	8.0	90	187	126	25	25	0.12		29
Max.	17.8	5	4	282			1.8	8.1	92	187	126	25	25	0.12		29
Min.	11.7	2	1	282			1.1	7.8	89	187	126	25	25	0.12		29
7-1-69	16.1	3	1				1.4	8.1	91							
7-2-69	15.6	2	1				1.4	8.1	91							
7-3-69	16.1	2	1				1.4	8.1	91							
7-4-69	17.8	3														
7-5-69	18.3	3	1				1.4									
7-6-69	18.3	3														
7-7-69	11.7	5	1				1.5	8.0	90							23
7-8-69	11.7	8	1				1.4	8.1	91							93
7-9-69	11.1	5	1				1.2	8.1	91							43
7-10-69	11.1	3	1				1.2	8.0	90							23
7-11-69	11.7	3	1				1.1	8.0	89							43
7-12-69	14.4	4	1				1.8									1,100
7-13-69	17.8	3														
7-14-69	18.3	3	1				1.4	8.1	90							43
7-15-69	18.9	3	1				1.4	8.1	90							23
7-16-69	19.4	3					1.6	8.2	87							4
7-17-69	20.6	4					1.8	8.2	88							23
7-18-69	17.8	8					1.5	8.1	87							4
7-19-69	16.1	4					1.7									7
7-20-69	15.6	2														
7-21-69	13.9	3														
7-22-69	14.4	2	1				0.6									23
7-23-69	14.4	2	1				1.1	8.0	96							43
7-24-69	16.7	2	1				0.9									93
7-25-69	18.9	2	1				0.9									93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
7-26-69	19.4	3					1.0									35
7-27-69	21.1	3														
7-28-69	23.9	4	1				1.6	8.2	89							43
7-29-69	23.9	3	1				1.3	8.2	88							9
7-30-69	23.3	3					1.3	8.2	87							4
7-31-69	23.3	2	2	310			1.2	8.2	90	196	130					4
July Avg.	17.1	3	1	310			1.3	8.1	90	196	130					84
Max.	23.9	8	2	310			1.8	8.2	96	196	130					1,100
Min.	11.1	2	1	310			0.6	8.0	87	196	130					4
8-1-69	23.9	2	2				1.1									
8-2-69	23.9	2	2				1.6									
8-3-69	23.9	1					1.5									
8-4-69	22.5	1	1		6.5	74	1.4	8.1	90							
8-5-69	22.8	1	1				1.0	8.2	90							
8-6-69	22.8	1	3				0.9	8.3	91							
8-7-69	23.9	1	4				1.5									
8-8-69	23.9	1	6				2.1									
8-9-69	24.4	1	8				2.1									
8-10-69	23.9	2	6				2.2									
8-11-69	23.9	2	6				1.9	8.5	91							
8-12-69	23.9	2	4				1.7									
8-13-69	23.3	2	6				1.5									
8-14-69	23.3	2	4				1.8	8.4	92							
8-15-69	23.3	2	2				1.7	8.3	92							
8-16-69	23.3	2	2				1.7	8.4	92							
8-17-69	23.3	2	4				1.9									
8-18-69	23.3	2	2				1.5	8.3	93							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-19-69	23.3	1	2				1.3									
8-20-69	22.8	1	2				1.3									
8-21-69	22.8	1	2				1.0	8.2	93							
8-22-69	22.8	1	2				1.1	8.2	93							
8-23-69	23.3	1	2				1.2									
8-24-69	23.9	1					1.2									
8-25-69	23.9	1	2				1.2	8.2	93							
8-26-69	23.9	1	2				0.8	8.4	93							
8-27-69	23.9	1	1				0.9	8.4	92							
8-28-69	23.9	1	1				0.8	8.4	91							
8-29-69	23.9	1					0.8	8.4	92							
8-30-69	23.9	1	1				0.8									
8-31-69	23.9	1		290			0.9			188	132	26	27	0.15		1
Aug. Avg.	23.5	1	3	290			1.4	8.3	92	188	132	26	27	0.5		1
Max.	24.4	2	8	290			2.2	8.5	93	188	132	26	27	0.15		1
Min.	22.5	1	1	290			0.8	8.1	90	188	132	26	27	0.15		1
9-1-69	23.9	1					0.9									
9-2-69	23.9	1	1				0.9									
9-3-69	22.8	1	1				1.1									
9-4-69	16.7	2	2				1.6	7.9	93							
9-5-69	16.7	1	25				3.0									
9-6-69	22.8	2	2				1.8									
9-7-69	23.3	1					1.4	[illegible]								
9-8-69	23.3	1	2				1.1	8.3	93							
9-9-69	23.3	1	2				1.2	8.3	92							
9-10-69	22.8	1	2				1.1	8.3	92							
9-11-69	22.8	1	2				1.3									
9-12-69	22.8	1	2				1.0	8.3	93							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
9-13-69	22.2	1	1				1.1									
9-14-69	22.2	1					1.1									
9-15-69	22.2	1	2				1.0	8.3	91							
9-16-69	22.2	1	2				1.1	8.3	91							
9-17-69	21.7	1					1.0	8.3								
9-18-69	21.7	1	2				1.2	8.3	91							
9-19-69	20.6	1	1				1.2	8.2	91							
9-20-69	20.0	1	1				0.8									
9-21-69	20.0	1					0.8									
9-22-69	20.0	1	1	292			0.9	8.2	91							
9-23-69	20.0	1	1	295			1.1	8.2	91							
9-24-69	20.0	1	1	290			0.8	8.2	91							
9-25-69	20.0	2	1	291			1.0	8.2	92							
9-26-69	20.0	2	1				0.8	8.2	92							
9-27-69	20.0	2	1				1.0									
9-28-69	19.9	1					1.0									
9-29-69	19.9	2	1				1.0									
9-30-69	18.9	2	1	290			0.8	8.3	92	180	131	26	29	0.08		2
Sept. Avg.	21.2	1	2	292			1.1	8.2	92	180	131	26	29	0.08		2
Max.	23.9	2	25	295			3.0	8.3	93	180	131	26	29	0.08		2
Min.	16.7	1	1	290			0.8	7.9	91	180	131	26	29	0.08		2
10-1-69	18.9	2	1	291			0.8	8.3	92							
10-2-69	18.9	2	1	290			0.9	8.3	92							
10-3-69	18.9	2		292			0.9	8.3	92							
10-4-69	18.9	2	2				0.9									
10-5-69	18.9	2														
10-6-69	18.9	2	1	290			0.9	8.3	92							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
10-7-69	18.9	2		295			0.9	8.3	92							
10-8-69	18.9	2		291			0.9	8.3	92							4
10-9-69	18.3	3		291			0.9									4
10-10-69	18.3	3	2	290			0.9									4
10-11-69	18.3	2	1				1.8									23
10-12-69	18.3	2														
10-13-69	18.3	2	2	295			1.5	8.2	91							9
10-14-69	17.8	5	2	295			1.2	8.2	91							21
10-15-69	17.8	4	2	293			1.1									9
10-16-69	17.2	3		290			1.0	8.1	92							9
10-17-69	16.7	25		288			1.4	8.1	91							15
10-18-69	16.1	10	3	285			1.3									
10-19-69	16.1	7														
10-20-69	16.1	4	2	285			1.0	8.2	94							7
10-21-69	15.6	10	2	283			1.3									0
10-22-69	14.4	30	2	282			1.1									9
10-23-69	14.4	50	2	280			1.1	8.1	95							9
10-24-69	13.3	20	2	280			0.9									9
10-25-69	13.9	8	1	278			1.0									21
10-26-69	13.9	6														
10-27-69	12.8	10	2	280			1.0	8.2	95							93
10-28-69	12.8	10	2	280			1.4	8.2	93							240
10-29-69	12.2	8		282			1.1	8.2	93							43
10-30-69	12.2	7		283			1.1	8.2	93							43
10-31-69	12.2	6		285			1.3			200	130	24	28	0.06		43
Oct. Avg.	16.4	8	2	287			1.1	8.2	93	200	130	24	28	0.06		23
Max.	18.9	25	3	295			1.8	8.3	95	200	130	24	28	0.06		240
Min.	12.2	2	1	278			0.8	8.1	91	200	130	24	28	0.06		0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
11-1-69	12.2	6					1.4									23
11-2-69	12.2	5														240
11-3-69	11.7	4		285			1.1	8.2	93							460
11-4-69	11.7	4														23
11-5-69	11.7	6	1	288			1.0	8.3	93							15
11-6-69	11.7	10	1	289			1.1									23
11-7-69	11.1	10		289			0.9	8.3	92							43
11-8-69	11.1	6					1.0									0
11-9-69	10.6	10														23
11-10-69	11.1	7	1	285			0.8	8.3	88							23
11-11-69	11.1	5		285												23
11-12-69	10.6	7	1	282			0.9	8.2	88							93
11-13-69	10.6	10	1	283			1.0									43
11-14-69	9.4	6	2	280			1.0	8.3	88							43
11-15-69	9.4	10					0.9									23
11-16-69	9.4	10														0
11-17-69	9.4	4	2	280			0.7	8.3	92							9
11-18-69	9.4	3		278			0.8									4
11-19-69	8.9	25		278			0.9	8.3	91							7
11-20-69	8.9	50		275			1.1	8.2	92							23
11-21-69	8.3	45		276			0.9	8.2	94							0
11-22-69	8.3	6	2				0.9									0
11-23-69	7.8	5														4
11-24-69	7.8	5		272			0.7	8.2	92							4
11-25-69	7.8	4		273			0.8	8.2	92							9
11-26-69	7.8	5	2	272			0.8	8.2	92							0
11-27-69	7.8	3		270												0
11-28-69	7.8	4		272			0.8	8.2	91							4
11-29-69	7.8	4	1				1.5									23
11-30-69	7.2	8								177	124	24	24	0.06		0

154

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
Nov. Avg.	9.3	10	1	280			1.0	8.2	91	177	124	24	24	0.06		40
Max.	12.2	50	2	289			1.5	8.3	93	177	124	24	24	0.06		460
Min.	7.2	3	1	270			0.7	8.2	88	177	124	24	24	0.06		0
12-1-69	6.7	30		270			0.9	8.2	92							4
12-2-69	6.7	30		270			0.9	8.2	91							4
12-3-69	6.7	40	1	270			1.0	8.2	90							9
12-4-69	5.6	50		268			1.0	8.2	89							0
12-5-69	5.6	30		268			0.9	8.2	89							240
12-6-69	5.6	15	1	267			1.3	8.2	90							460
12-7-69	5.6	8					0.9									23
12-8-69	5.0	7	2	267			0.7	8.2	89							21
12-9-69	5.0	5		265			0.5	8.2	88							23
12-10-69	5.0	5		268			0.7	8.3	87							23
12-11-69	5.0	10	1	266			0.7	8.2	87							23
12-12-69	5.0	10		265			0.6	8.2	88							43
12-13-69	3.9	15		265			0.6	8.2	87							23
12-14-69	3.9	10					0.8									240
12-15-69	3.3	15	2	265			0.8	8.3	87							43
12-16-69	3.3	15		265			0.8	8.3	88							150
12-17-69	3.3	7		265			0.6	8.2	86							15
12-18-69	2.8	5	2	266			0.6	8.3	86							4
12-19-69	2.8	40		266			0.8	8.3	86							43
12-20-69	2.2	20		266			0.6	8.3	85							240
12-21-69	2.2	10					0.6									0
12-22-69	2.2	10	2	267			0.5	8.3	85							23
12-23-69	1.7	15	2	268			0.6	8.3	86							93
12-24-69	6.1	30		268			0.5	8.4	86							240
12-25-69	6.1	9		267			0.5	8.4	87							23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham Filtration Plant

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
12-26-69	1.1	7		268			1.3	8.4	87							1,100
12-27-69	1.1	10	2	269			0.4	8.4	86							240
12-28-69	1.1	10					0.6									23
12-29-69	1.1	8		269			1.2	8.5	86							1,100
12-30-69	1.1	8	2	270			1.1	8.5	86							150
12-31-69	0.6	30		270			1.2	8.5	86	184	122	25	23	0.07		2,400
Dec. Avg.	3.8	17	2	267			0.8	8.3	87	184	122	25	23	0.07		227
Max.	5.0	50	2	270			1.3	8.5	92	184	122	25	23	0.07		2,400
Min.	0.6	5	1	265			0.4	8.2	85	184	122	25	23	0.07		0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-69	0.0	95				2.5	7.7	100		130		53			110,000
1-2-69	0.0	80				1.8	7.4	106		136		55			7,500
1-3-69	0.0	65				2.0	7.5	96		150		45			4,300
1-4-69	0.0	45				2.1	7.0	100		142		50			9,300
1-5-69	0.0	45				1.6	7.5	102		136		63			15,000
1-6-69	0.0	35				1.8	7.3	104		125		67			4,300
1-7-69	0.0	70				2.0	7.5	98		114		46			46,000
1-8-69	0.0	30				1.1	7.8	100		122		50			4,300
1-9-69	0.0	40				1.4	7.6	110		125		54			24,000
1-10-69	0.0	15				1.3	7.5	100		116		52			2,400
1-11-69	0.0	4				1.7	7.6	98		120		56			4,300
1-12-69	0.0	4				1.5	7.2	100		120		55			4,300
1-13-69	0.0	4				1.7	7.6	98		128		57			930
1-14-69	0.0	4				1.7	7.5	100		120		53			930
1-15-69	0.0	4				1.4	7.4	98		130		49			1,500
1-16-69	0.0	4				1.6	7.5	104		122		52			2,400
1-17-69	0.0	4				1.4	7.6	100		130		49			2,400
1-18-69	0.0	0				1.2	6.8	100		145		56			430
1-19-69	0.0	4				1.7	7.4	98		140		74			730
1-20-69	0.0	8				2.5	6.6	98		138		58			1,500
1-21-69	0.0	4				1.7	7.3	104		132		60			2,400
1-22-69	0.0	30				2.4	7.1	100		126		58			7,500
1-23-69	0.0	20				2.1	7.4	104		124		60			7,500
1-24-69	0.0	20				2.2	6.7	96		125		65			7,900
1-25-69	0.0	110				3.0	7.4	100		140		60			12,000
1-26-69	0.0	30				3.0	7.3	94		148		54			730
1-27-69	0.0	8				2.3	-	100		133		55			730
1-28-69	0.0	4				1.8	6.8	104		130		54			240
1-29-69	0.0	20				3.3	-	100		136		56			1,500

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-30-69	1.0	35				-	7.3	100		140		57			4,300
1-31-69	1.0	75				3.4	7.4	100		130		53			7,500
Jan. Avg.	0.0	29				1.9	7.6	100		131		55			9,626
Max.	1.0	110				3.4	7.8	110		150		74			110,000
Min.	0.0	0				1.1	6.6	94		114		45			240
2-1-69	1.0	55				2.2	7.6	100		136		54			930
2-2-69	1.0	75				2.1	7.6	100		139		51			9,300
2-3-69	1.0	30				1.7	7.5	102		130		55			2,400
2-4-69	0.0	10				2.4	7.4	100		135		44			3,900
2-5-69	0.0	30				3.2	7.5	100		132		65			3,900
2-6-69	0.0	20				2.8	7.5	108		135		54			2,400
2-7-69	0.0	30				2.5	7.5	100		135		53			730
2-8-69	0.0	16				2.1	7.8	100		143		60			2,400
2-9-69	0.0	20				2.9	7.6	100		140		60			2,400
2-10-69	0.0	20				2.3	7.5	106		142		62			2,400
2-11-69	0.0	20				2.5	7.4	90		143		58			430
2-12-69	0.0	20				2.7	7.5	94		154		58			390
2-13-69	0.0	20				2.7	7.5	96		152		63			430
2-14-69	0.0	15				2.6	7.3	96		143		58			230
2-15-69	0.0	4				3.6	7.2	94		145		56			390
2-16-69	0.0	4				2.3	7.4	98		146		54			1,500
2-17-69	0.0	8				2.0	7.8	94		143		52			930
2-18-69	0.0	4				2.2	7.9	94		143		60			91
2-19-69	0.0	4				2.0	7.9	100		144		56			150
2-20-69	0.0	4				2.2	7.8	92		135		60			36
2-21-69	0.0	4				2.3	7.8	106		142		62			91
2-22-69	0.0	4				2.0	7.5	108		140		56			36
2-23-69	0.0	4				2.6	7.5	100		140		54			91

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-24-69	0.0	4				2.4	-	100		133		52			36
2-25-69	0.0	4				1.8	7.7	94		150		60			73
2-26-69	0.0	4				2.5	7.7	96		135		53			36
2-27-69	0.0	4				5.1	7.9	96		128		45			36
2-28-69	0.0	4				2.1	8.0	100		140		55			91
Feb. Avg.	0.1	16				2.5	7.6	98		140		56			1,279
Max.	1.0	75				5.1	8.0	108		154		65			9,300
Min.	0.0	4				1.7	7.2	90		128		44			36
3-1-69	0.0	4				2.1	7.8	102		139		53			0
3-2-69	0.0	4				3.4	8.1	100		138		53			91
3-3-69	0.0	4				2.1	7.9	102		134		53			36
3-4-69	0.0	4				2.4	8.0	94		135		45			91
3-5-69	0.0	4				3.3	8.0	100		150		55			36
3-6-69	0.0	4				1.8	7.8	98		135		45			36
3-7-69	0.0	4				2.0	7.9	100		132		45			36
3-8-69	0.0	4				2.2	7.9	104		164		63			230
3-9-69	0.0	4				2.4	7.9	96		143		50			36
3-10-69	0.0	4				2.0	7.8	90		140		45			36
3-11-69	0.0	4				2.6	8.0	92		138		50			36
3-12-69	0.0	4				1.5	7.9	98		161		50			230
3-13-69	0.0	4				2.6	8.2	96		145		60			0
3-14-69	0.0	4				1.8	7.9	98		148		48			0
3-15-69	0.0	4				1.9	8.2	98		147		46			0
3-16-69	0.0	4				1.7	8.1	96		163		60			0
3-17-69	0.0	4				1.1	7.9	94		154		55			0
3-18-69	0.0	4				1.8	8.0	94		140		57			0
3-19-69	2.0	4				1.8	7.7	100		170		66			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-20-69	2.0	4				1.6	8.4	106		184		58			36
3-21-69	1.0	25				1.5	8.2	100		200		58			360
3-22-69	0.0	25				3.5	8.0	104		162		50			46,000
3-23-69	1.0	50				3.1	7.8	100		150		52			24,000
3-24-69	2.0	45				4.1	7.3	104		162		50			1,500
3-25-69	2.0	45				4.5	7.6	100		138		42			2,400
3-26-69	2.0	130				4.6	7.7	98		130		45			24,000
3-27-69	3.5	80				3.4	8.0	100		140		40			46,000
3-28-69	3.5	45				5.8	7.7	100		136		47			43,000
3-29-69	3.5	60				5.7	7.9	100		130		45			9,300
3-30-69	3.5	70				4.8	7.9	98		136		47			1,500
3-31-69	3.0	80				5.1	7.8	98		139		48			24,000
Mar. Avg.	0.9	23				2.8	7.9	98		147		51			7,193
Max.	3.5	130				5.8	8.4	106		200		66			46,000
Min.	0.0	4				1.1	7.3	90		130		40			0
4-1-69	3.0	75				4.6	8.0	86		125		45			930
4-2-69	4.0	70				3.9	8.0	98		138		52			4,300
4-3-69	4.0	65				4.1	8.0	98		131		51			24,000
4-4-69	4.0	50				3.8	8.0	106		136		50			930
4-5-69	5.0	50				4.7	8.0	96		126		55			4,300
4-6-69	5.0	75				3.9	7.9	100		135		54			9,300
4-7-69	5.0	40				3.4	8.0	94		132		45			230
4-8-69	5.5	30				3.2	8.0	100		128		45			230
4-9-69	6.0	45				3.4	8.1	92		135		43			230
4-10-69	7.0	30				3.6	8.0	92		126		37			430
4-11-69	7.5	45				3.3	8.0	94		136		41			4,300
4-12-69	7.0	8				3.2	8.0	98		134		43			210

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-13-69	9.0	60				3.0	8.0	78		188		110			2,400
4-14-69	7.5	45				2.7	7.6	92		125		45			430
4-15-69	7.5	25				2.1	7.9	92		134		50			430
4-16-69	9.0	50		12.7	108	2.7	7.7	108		130		45			930
4-17-69	9.0	10		12.0	104	2.9	7.9	96		125		42			430
4-18-69	10.0	30				3.0	7.7	94		125		44			9,300
4-19-69	9.0	85				3.8	7.8	100		128		42			2,400
4-20-69	8.0	170				3.2	7.5	100		138		52			2,400
4-21-69	7.5	140		13.3	110	2.1	7.9	98		130		53			230
4-22-69	8.0	120		13.3	110	3.0	8.8	102		130		50			4,300
4-23-69	9.0	110		8.9	76	3.0	8.0	94		145		56			4,300
4-24-69	8.5	180				3.4	8.0	96		139		60			9,300
4-25-69	9.5	110				3.6	7.7	98		131		50			9,300
4-26-69	9.5	90				4.6	7.8	90		140		55			7,500
4-27-69	10.5	55				5.1	7.8	92		134		56			230
4-28-69	11.0	45				5.3	7.9	96		138		50			7,500
4-29-69	11.0	30				3.4	7.2	94		125		47			4,300
4-30-69	10.0	25		9.6	85	-	7.9	98		130		49			1,500
Apr. Avg.	7.6	65		11.6	98	3.5	7.9	95		167		50			3,885
Max.	11.0	180		13.3	110	5.3	8.8	108		1,126		110			24,000
Min.	3.0	8		8.9	76	2.1	7.2	78		125		37			210
5-1-69	10.0	20				2.3	7.9	90		120		44			150
5-2-69	10.0	4				2.2	7.8	92		122		40			91
5-3-69	11.0	4				2.5	8.0	98		123		45			210
5-4-69	11.0	8				2.2	7.9	102		120		40			36
5-5-69	10.5	8		11.4	102	2.2	7.9	96		114		40			430
5-6-69	11.0	10				2.2	8.0	94		140		55			730
5-7-69	9.5	10		10.4	91	2.3	7.8	96		130		43			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-8-69	10.5	15				2.0	7.9	94		143		47			0
5-9-69	12.0	15				2.0	7.9	96		133		47			36
5-10-69	12.0	140				3.5	7.9	92		132		38			15,000
5-11-69	11.5	140				3.0	7.9	94		130		40			110,000
5-12-69	12.0	140		7.2	66	3.1	7.9	96		125		37			4,300
5-13-69	12.0	60		9.6	88	3.2	7.9	92		125		40			4,300
5-14-69	11.5	60		10.4		2.5	7.7	90		155		47			4,300
5-15-69	11.0	35				1.6	8.2	108		125		44			2,400
5-16-69	11.0	30		10.0	90	1.7	8.2	100		125		50			430
5-17-69	12.0	30				2.0	8.0	100		136		54			430
5-18-69	13.0	25				1.3	7.9	98		132		38			230
5-19-69	10.0	70				1.7	8.1	100		132		42			4,300
5-20-69	14.0	90		8.9	85	1.8	8.1	92		131		40			24,000
5-21-69	15.0	220		8.9	87	2.9	8.2	100		130		40			24,000
5-22-69	14.0	60				1.5	8.2	100		128		49			4,300
5-23-69	13.5	45		9.6	87	2.0	8.3	94		140		60			2,400
5-24-69	12.0	15				1.1	8.0	98		128		51			430
5-25-69	12.0	25				2.0	8.1	102		135		57			1,500
5-26-69	13.0	130		9.6	90	1.7	8.2	100		140		60			2,400
5-27-69	11.0	10		9.6	86	2.1	7.9	96		128		43			430
5-28-69	11.0	8		10.1	91	0.9	8.2	98		128		45			230
5-29-69	14.0	25		10.0	96	1.3	8.3	100		133		56			430
5-30-69	15.0	30		10.4	102	1.5	8.3	98		145		50			91
5-31-69	16.0	20		10.9	110	1.6	8.2	106		128		53			930
May Avg.	12.0	48		9.8	90	2.0	8.0	97		130		46			6,726
Max.	16.0	220		11.4	110	3.5	8.3	108		155		60			110,000
Min.	9.5	4		7.2	66	0.9	7.7	90		114		37			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-1-69	16.0	10		10.4	105	1.3	8.1	110		130		52			360
6-2-69	17.0	20		10.4	106	2.6	8.5	100		130		46			930
6-3-69	17.0	95		8.9	91	3.1	8.2	104		130		44			930
6-4-69	16.0	90		7.9	79	5.0	8.2	100		134		42			24,000
6-5-69	16.5	75		7.4	75	3.6	8.1	100		130		40			4,300
6-6-69	17.0	55		9.2	95	3.9	8.0	102		140		52			2,400
6-7-69	16.5	35		10.4	105	3.0	8.1	96		140		42			1,500
6-8-69	16.0	25		-	-	2.9	8.1	98		134		42			430
6-9-69	16.0	60		7.4	74	2.9	8.0	100		133		52			9,300
6-10-69	15.0	20		7.4	72	2.9	8.1	96		138		57			230
6-11-69	15.0	8		7.9	77	2.5	8.2	98		134		42			430
6-12-69	16.0	15		7.7	77	2.8	7.8	100		130		42			930
6-13-69	18.0	30		7.7	80	2.8	8.2	100		132		43			4,300
6-14-69	18.0	15		-	-	3.5	7.8	102		130		40			9,300
6-15-69	17.5	65		-	-	4.1	8.0	104		132		52			4,300
6-16-69	15.0	90		7.0	67	4.1	7.8	100		123		40			1,500
6-17-69	14.0	25		-	-	3.2	7.9	100		128		42			930
6-18-69	18.0	42		7.9	82	2.8	7.9	96		135		50			430
6-19-69	18.0	55		7.9	82	3.0	7.2	102		130		47			2,400
6-20-69	18.0	15		7.9	82	3.4	7.2	100		130		43			2,400
6-21-69	17.5	60		8.2	85	3.1	8.1	112		146		53			930
6-22-69	15.5	10		7.9	77	2.4	7.2	106		143		53			230
6-23-69	14.0	30		7.0	66	3.1	7.8	108		146		46			230
6-24-69	16.5	20		8.0	80	2.4	8.0	96		140		50			230
6-25-69	15.0	15		-	-	2.8	7.8	104		136		45			430
6-26-69	14.0	8		6.5	62	2.0	7.6	100		130		43			230
6-27-69	19.0	8		8.3	89	2.7	8.0	100		130		37			230
6-28-69	20.0	10		9.2	100	3.1	7.8	104		125		42			2,300
6-29-69	21.0	4		9.2	102	3.2	7.9	104		130		45			230
6-30-69	21.0	4		-	-	2.8	8.0	104		120		45			91

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
June Avg.	16.8	33		8.2	83	3.0	7.9	101		132		45			2,547
Max.	21.0	95		10.4	106	5.0	8.5	112		146		57			24,000
Min.	14.0	4		6.5	62	1.3	7.2	96		120		37			91
7-1-69	21.0	10		7.7	85	3.2	7.7	108		130		50			230
7-2-69	20.0	10				3.4	7.7	100		128		42			230
7-3-69	20.5	8		8.5	93	3.1	7.7	100		134		44			430
7-4-69	20.5	8		8.9	98	2.6	7.7	100		133		43			430
7-5-69	20.5	20				3.4	7.6	104		130		47			230
7-6-69	21.0	20		8.2	91	2.5	7.7	104		131		43			230
7-7-69	20.0	95		7.2	78	4.1	7.9	96		146		75			24,000
7-8-69	13.0	150		4.0	38	3.1	7.6	110		130		41			2,400
7-9-69	14.0	40		4.9	48	2.5	7.6	112		125		50			2,400
7-10-69	13.0	20		4.5	42	2.3	7.6	104		142		43			2,400
7-11-69	17.0	20		5.5	57	2.4	7.5	100		134		40			930
7-12-69	21.0	10				2.8	7.7	104		132		40			2,400
7-13-69	21.0	25				2.3	8.2	104		136		40			2,400
7-14-69	22.0	20				2.3	8.4	96		132		40			230
7-15-69	22.0	20		8.2	93	2.3	8.1	104		135		40			230
7-16-69	21.0	10				2.3	8.1	100		127		37			2,400
7-17-69	23.0	10				3.7	8.5	108		124		43			430
7-18-69	24.5	10				3.6	8.7	108		124		43			930
7-19-69	21.0	20				3.6	7.9	104		124		41			430
7-20-69	20.0	8				2.4	7.9	106		127		39			930
7-21-69	21.0	10				2.6	7.8	98		121		40			230
7-22-69	21.0	150		4.6	51	2.3	7.9	98		115		35			24,000
7-23-69	19.0	40		4.8	51	2.3	8.0	102		126		40			430
7-24-69	17.5	10		3.9	41	2.0	8.0	104		132		40			430
7-25-69	21.5	10		7.4	83	2.0	8.0	102		128		36			930

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-26-69	23.0	40		9.6	110	2.3	8.1	100		124		35			230
7-27-69	23.5	20				2.7	8.2	100		128		38			750
7-28-69	24.0	15		7.2	84	3.3	8.2	100		125		38			930
7-29-69	24.0	85		6.5	76	2.7	8.1	100		125		38			930
7-30-69	24.0	30		6.1	71	2.7	7.8	100		120		37			930
7-31-69	23.5	8				3.0	7.9	100		122		38			230
July Avg.	20.6	30		6.5	72	2.8	7.9	102		129		42			2,397
Max.	24.5	150		9.6	110	4.1	8.7	112		146		75			24,000
Min.	13.0	8		3.9	38	2.0	7.5	96		115		35			230
8-1-69	24.0	40				2.9	7.9	100		132		38			2,400
8-2-69	24.5	4				2.5	8.1	102		134		41			430
8-3-69	24.5	8				2.7	8.1	104		124		43			230
8-4-69	24.0	10				2.8	7.8	102		134		37			2,800
8-5-69	24.0	10		4.4	51	2.4	7.5	102		136		42			1,500
8-6-69	25.0	4		6.5	77	3.3	8.1	104		130		40			230
8-7-69	25.0	10		7.7	91	2.6	8.1	104		140		52			210
8-8-69	26.0	120		6.5	78	3.8	8.2	104		120		43			930
8-9-69	25.0	95				4.7	8.3	108		140		40			1,500
8-10-69	24.0	45				5.5	8.0	108		142		42			15,000
8-11-69	24.5	30		6.7	79	4.0	8.2	104		142		34			15,000
8-12-69	24.0	15		6.5	76	4.0	8.4	104		132		37			930
8-13-69	24.0	4		6.7	78	4.8	8.4	104		126		36			230
8-14-69	24.5	10		6.7	79	5.2	8.4	102		146		47			930
8-15-69	24.0	40		7.2	84	4.0	8.0	104		140		50			36
8-16-69	24.5	10		6.2	73	3.7	8.3	106		138		52			930
8-17-69	25.0	8		7.7	91	3.8	8.4	104		124		51			930
8-18-69	25.0	4		8.5	101	3.1	8.6	108		130		52			230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-19-69	25.0	8		7.7	91	2.4	8.3	104		126		57			230
8-20-69	25.0	50		8.5	101	3.5	8.6	104		130		58			4,300
8-21-69	25.0	15		9.6	114	3.3	8.5	104		146		65			230
8-22-69	25.0	4		9.2	109	3.3	8.4	100		154		80			73
8-23-69	24.0	8		7.0	82	3.2	8.7	104		150		73			230
8-24-69	25.0	4		8.9	106	2.4	8.5	108		140		55			73
8-25-69	25.0	8		7.7	91	2.5	8.5	102		144		55			230
8-26-69	26.0	4		7.9	95	2.4	8.5	106		132		48			610
8-27-69	24.0	4		7.2	84	2.7	8.3	104		130		46			140
8-28-69	24.0	10		7.0	82	2.6	8.3	104		134		50			1,400
8-29-69	24.0	4				2.3	8.4	104		136		50			730
8-30-69	24.5	8				2.5	8.2	102		150		48			230
8-31-69	24.5	4				2.6	8.3	102		134		55			230
Aug. Avg.	24.6	19		7.4	87	3.3	8.3	103		136		49			1,714
Max.	26.0	120		9.6	112	5.5	8.7	108		154		80			15,000
Min.	24.0	4		4.4	50	2.3	7.5	100		120		34			36
9-1-69	25.0	8				2.7	7.8	102		140		48			5,300
9-2-69	25.0	4		5.9	70	3.6	7.6	100		136		45			230
9-3-69	25.0	4		4.5	53	4.7	7.5	106		160		81			930
9-4-69	24.0	8		3.4	40	4.7	7.8	100		150		75			6,400
9-5-69	23.5	8		3.9	45	4.9	7.3	100		156		70			230
9-6-69	24.5	8				4.7	7.8	104		146		63			210
9-7-69	25.0	25				6.0	8.0	102		134		52			230
9-8-69	24.0	8		6.5	76	3.0	8.1	104		138		42			1,500
9-9-69	23.5	45				4.2	8.1	104		136		48			1,500
9-10-69	22.5	100		6.3	72	4.1	7.8	104		133		50			46,000
9-11-69	22.0	45		7.2	81	2.9	7.9	108		136		51			230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
9-12-69	22.0	75				3.5	7.9	110		140		53			230
9-13-69	22.0	20				4.1	7.8	102		140		50			230
9-14-69	22.0	35		6.1	69	4.1	7.9	104		144		55			2,300
9-15-69	22.0	20		7.9	89	3.6	8.0	104		136		62			230
9-16-69	22.0	30		7.2	81	3.2	7.9	100		138		50			91
9-17-69	22.5	15		7.2	82	2.4	7.4	104		136		50			210
9-18-69	21.0	55		7.9	88	3.4	7.9	104		150		75			930
9-19-69	20.0	30		.9	86	3.4	7.9	110		180		87			9,300
9-20-69	20.0	30		8.9	97	3.4	8.3	100		170		87			2,300
9-21-69	20.0	35				2.9	7.8	104		160		77			4,300
9-22-69	20.0	30		7.7	84	3.1	8.2	100		150		70			9,300
9-23-69	20.0	15		7.9	86	3.2	8.0	100		154		77			9,300
9-24-69	21.0	30		7.7	85	2.5	8.0	100		144		67			9,300
9-25-69	20.0	35		7.9	86	2.5	7.9	100		160		60			4,300
9-26-69	19.0	20				1.8	7.6	102		170		75			430
9-27-69	19.5	20				2.4	7.5	104		148		76			360
9-28-69	19.5	30				2.7	7.8	106		148		68			430
9-29-69	19.0	30		7.7	82	2.7	7.8	100		144		56			1,500
9-30-69	18.5	25		7.7	82	2.2	7.8	104		144		62			1,500
Sep. Avg.	21.8	28		6.8	76	3.4	7.8	103		147		62			3,977
Max.	25.0	100		8.9	97	6.0	8.3	110		180		87			91
Min.	18.5	4		3.4	40	1.8	7.3	100		133		42			46,000
10-1-69	19.0	20		7.7	82	2.6	7.6	102		140		60			230
10-2-69	19.5	40		7.9	85	7.0	7.9	106		134		52			730
10-3-69	19.5	40		7.7	83	4.2	8.0	100		136		50			230
10-4-69	19.0	15				3.1	8.1	100		140		48			36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
10-5-69	19.0	20				1.4	8.3	102		154		52			430
10-6-69	19.0	20		8.2	88	2.4	8.1	104		136		52			430
10-7-69	18.0	10		7.9	83	2.0	8.3	106		140		50			91
10-8-69	18.0	45		7.9	83	2.8	8.0	100		140		50			930
10-9-69	18.0	75		7.2	76	2.8	8.0	106		138		45			9,300
10-10-69	17.5	35		7.4	77	4.0	7.4	100		140		50			1,500
10-11-69	18.0	15		7.9	83	2.6	7.4	104		150		48			2,400
10-12-69	18.0	35		7.9	83	3.0	7.3	106		144		45			2,000
10-13-69	18.0	85				2.7	7.3	104		138		50			46,000
10-14-69	18.5	105				5.4	7.8	102		146		42			110,000
10-15-69	17.0	45		8.5	88	5.3	7.3	106		160		60			24,000
10-16-69	18.0	110				4.9	7.0	100		152		55			24,000
10-17-69	17.0	135		10.4	107	4.5	7.2	108		154		54			110,000
10-18-69	16.0	150		10.4	105	3.7	7.6	108		150		50			2,400,000
10-19-69	15.0	105		9.6	95	2.9	7.0	106		146		52			15,000
10-20-69	15.0	75		8.2	81	2.8	7.4	96		170		44			43,000
10-21-69	15.0	75				2.8	7.8	100		124		45			240,000
10-22-69	14.5	95		8.5	83	2.5	7.8	110		150		44			240,000
10-23-69	13.0	135		8.5	81	2.2	7.8	102		136		43			240,000
10-24-69	12.0	80				1.5	7.8	100		176		45			240,000
10-25-69	12.0	50				2.0	7.1	100		140		44			43,000
10-26-69	12.5	35				1.8	7.8	106		140		50			2,400
10-27-69	12.0	85		10.4	97	1.8	7.8	100		130		50			9,300
10-28-69	11.5	80		9.6	88	2.2	7.8	104		130		45			9,300
10-29-69	12.0	50		9.2	86	2.0	7.8	108		133		47			930
10-30-69	11.5	60		9.2	85	2.2	7.8	100		132		50			930
10-31-69	12.0	45		9.6	89	1.5	7.8	102		140		52			930

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
Oct. Avg.	15.9	64		8.6	87	3.0	7.6	103		143		49			123,132
Max.	19.5	135		10.4	107	7.0	8.3	110		176		60			2,400,000
Min.	11.0	10		7.7	81	1.4	7.0	96		124		42			36
11-1-69	12.0	80				1.3	7.7	102		140		54			9,300
11-2-69	13.0	35				2.2	7.8	104		138		54			24,000
11-3-69	13.0	55				1.5	7.8	100		140		48			43,000
11-4-69	11.5	20		9.2	85	1.4	7.8	104		152		50			93,000
11-5-69	11.0	85		8.5	77	2.2	7.8	98		144		53			1,100,000
11-6-69	11.0	70		10.4	95	2.6	7.8	104		144		45			240,000
11-7-69	10.0	55		10.0	89	2.3	7.8	100		136		45			43,000
11-8-69	10.0	50		9.2	82	2.3	8.0	106		144		48			24,000
11-9-69	10.0	30		9.6	86	2.1	8.0	108		146		57			15,000
11-10-69	10.5	35		9.2	83	2.3	7.8	102		140		64			9,300
11-11-69	10.5	25		9.6	86	1.7	8.3	102		140		45			15,000
11-12-69	10.5	30		9.6	86	2.6	7.8	102		140		46			24,000
11-13-69	10.0	115		9.2	82	3.8	7.8	102		150		45			1,100,000
11-14-69	10.0	70		9.2	82	1.7	7.8	100		136		40			93,000
11-15-69	9.0	75		9.6	83	3.0	8.0	104		134		40			1,100,000
11-16-69	8.0	70				3.9	8.1	108		140		42			240,000
11-17-69	7.0	215		10.4	86	2.6	7.8	100		150		50			240,000
11-18-69	8.0	30		10.4	88	2.1	7.8	90		128		38			15,000
11-19-69	8.5	30		10.4	89	2.2	7.8	92		136		38			9,300
11-20-69	7.5	90		11.4	95	2.7	7.9	92		128		35			240,000,000
11-21-69	7.0	105		8.5	70	2.8	7.6	96		140		40			430,000
11-22-69	6.5	85				2.4	7.9	100		142		39			75,000
11-23-69	6.0	50				2.9	7.8	96		136		42			120,000
11-24-69	6.5	60		10.4	85	2.8	7.8	98		130		42			150,000

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-25-69	6.0	50		10.9	88	2.9	7.7	92		130		45			20,000
11-26-69	7.5	80		10.4	87	3.5	7.8	98		120		45			240,000
11-27-69	7.5	55				2.6	7.8	100		146		50			24,000
11-28-69	7.5	80		11.4	95	2.9	7.7	98		126		45			93,000
11-29-69	7.5	75				3.2	7.8	100		130		40			24,000
11-30-69	7.5	50				3.2	7.9	94		146		48			210,000
Nov. Avg.	9.0	65		9.9	85	2.5	7.8	100		138		45			8,194,000
Max.	13.0	215		11.4	95	3.9	8.3	108		152		64			240,000,000
Min.	6.0	20		8.5	70	1.3	7.6	90		120		35			9,300
12-1-69	6.0	75		11.4	92	4.6	7.6	105		142		50			2,400,000
12-2-69	4.0	125		12.0	92	3.3	7.7	100		136		43			150,000
12-3-69	5.0	80		10.4	82	2.2	7.8	100		140		45			43,000
12-4-69	4.5	95		11.4	88	2.9	7.8	104		140		46			93,000
12-5-69	3.5	180		12.0	91	3.9	7.7	106		150		39			240,000
12-6-69	3.5	80				2.8	7.7	102		140		50			43,000
12-7-69	4.0	55				2.9	7.7	108		142		49			15,000
12-8-69	4.5	80		12.7	98	2.0	7.7	100		136		42			24,000
12-9-69	4.0	70		11.4	87	2.4	7.8	96		134		39			43,000
12-10-69	4.0	50				1.8	7.8	100		144		40			24,000
12-11-69	4.0	90		12.0	92	2.7	7.8	100		150		43			43,000
12-12-69	3.0	110		12.0	89	3.9	7.8	100		155		54			240,000
12-13-69	3.0	135		12.0	89	4.6	7.7	100		158		45			2,400,000
12-14-69	3.0	50		12.7	95	3.9	7.8	100		140		41			24,000
12-15-69	3.0	80		8.2	61	3.4	7.7	100		150		40			240,000
12-16-69	3.0	95		11.4	85	3.6	7.6	108		158		41			930,000
12-17-69	3.0	85		11.4	85	3.6	7.8	98		138		44			24,000

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
12-18-69	2.5	55				2.9	7.9	106		142		45			93,000
12-19-69	2.0	90		12.0	87	5.7	7.8	98		150		46			240,000
12-20-69	2.0	95				5.5	7.7	100		148		48			43,000
12-21-69	1.5	80				4.8	7.7	98		170		47			93,000
12-22-69	2.5	50				4.6	7.6	102		176		44			24,000
12-23-69	1.5	70		13.3	95	4.7	7.5	96		166		75			24,000
12-24-69	0.5	85		13.3	93	4.8	7.8	96		170		72			240,000
12-25-69	0.5	80		13.3	93	3.3	7.8	90		150		72			24,000
12-26-69	0.5	80		13.3	93	3.9	7.8	96		152		68			4,300
12-27-69	0.5	85		13.3	93	3.2	7.8	98		158		60			24,000
12-28-69	0.5	80		13.3	93	2.4	7.8	96		164		45			43,000
12-29-69	0.5	40		13.3	93	2.3	7.8	98		140		44			210
12-30-69	0.5	45		13.3	93	2.5	7.9	94		130		40			230
12-31-69	0.5	75		13.3	93	1.4	7.8	92		174		77			930
Dec. Avg.	2.6	82		12.2	89	3.4	7.7	100		150		49			252,570
Max.	6.0	180		13.3	98	5.7	7.9	108		176		77			2,400,000
Min.	0.5	40		8.2	61	1.4	7.5	90		130		39			210

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palnesville F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-69	1.7	200				2.8	7.8	88		158		33			24,000
1-2-69	1.7	80				2.2	7.9	92		172		29			24,000
1-3-69	1.1	30				1.2	7.9	92		148		29			4,300
1-4-69	1.1	20				1.4	7.9	88		142		34			7,500
1-5-69	1.1	15				1.7	7.9	82		156		44			3,900
1-6-69	1.1	10				2.2	7.8	86		162		39			9,300
1-7-69	0.6	10				1.7	7.9	89		174		28			24,000
1-8-69	0.6	5				1.4	7.7	93		156		27			2,300
1-9-69	0.6	5		15.9	110	1.7	7.9	90		148		38			930
1-10-69	0.6	5	286	15.7	109	1.9	7.9	92	179	156	18	35	1.22	0.46	430
1-11-69	0.6	5				1.8	7.9	88		132		40			140
1-12-69	0.6	5				2.1	7.9	84		138		36			4,600
1-13-69	0.6	5		10.2	72	1.8	7.7	92		140		34			930
1-14-69	0.6	5		15.9	110	2.0	7.8	90		156		32			430
1-15-69	0.6	5		14.1	98	1.8	7.8	93		140		31			430
1-16-69	0.6	5		10.7	74	2.1	7.8	89		140		31			230
1-17-69	0.6	5	320	15.9	110	2.2	7.8	94	200	148	18	28	0.08	0.10	430
1-18-69	0.6	5				2.1	7.8	96		150		32			210
1-19-69	0.6	5				1.7	7.8	90		130		42			150
1-20-69	0.6	5		15.4	106	2.3	7.8	96		150		32			430
1-21-69	0.6	5		14.9	104	2.0	7.8	96		162		34			36
1-22-69	0.6	5		16.0	110	1.7	7.9	97		140		29			150
1-23-69	0.6	5		16.2	111	2.1	7.8	95		142		30			230
1-24-69	0.6	5	269	15.1	105	2.1	7.9	94	168	134	18	31	0.18	0.00	91
1-25-69	0.6	5		16.2	111	1.8	7.8	96		138		31			230
1-26-69	0.6	5		15.4	106	2.6	7.8	96		140		34			1,500
1-27-69	0.6	15				3.2	7.8	95		144		31			930
1-28-69	0.6	50		16.6	125	5.0	7.8	97		146		39			11,000
1-29-69	0.6	30		16.1	111	5.0	7.8	97		162		37			9,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palnesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-30-69	0.6	40		15.8	109	5.2	7.8	98		170		38			
1-31-69	0.6	60		15.7	109	4.2	7.7	90		162		50			
Jan. Avg.	0.7	21	291	15.1	105	2.3	7.8	92	182	149	18	34	0.49	0.19	4,302
Max.	1.7	200	320	16.6	125	5.2	7.9	98	200	174	18	50	1.22	0.46	24,000
Min.	0.6	5		10.2	72	1.2	7.7	82	168	130	18	27	0.08	0.00	91
2-1-69	2.2	90				4.0	7.7	91		158		48			12,000
2-2-69	1.7	60				2.9	7.9	91		140		43			9,300
2-3-69	1.1	30		16.1	111	3.0	7.7	92		138		39			2,300
2-4-69	0.6	10		15.7	109	2.4	7.9	93		152		33			150
2-5-69	0.6	10		15.7	109	3.1	7.9	90		134		34			930
2-6-69	0.6	5		15.5	107	2.6	7.8	93		132		33			4,600
2-7-69	0.6	5		15.6	107	1.8	7.7	92		136		34			430
2-8-69	0.6	5				2.8	7.7	92		136		34			2,100
2-9-69	0.6	5				3.2	7.8	92		138		31			1,500
2-10-69	0.6	5		15.6	107	2.9	7.8	90		150		35			230
2-11-69	0.6	5		15.5	107	3.1	7.8	91		148		35			36
2-12-69	0.6	5		15.4	106	2.3	7.7	92		160		46			36
2-13-69	0.6	5		15.5	107	3.1	7.7	90		152		50			230
2-14-69	0.6	5	304	15.6	107	2.4	7.8	94	190	156	21	48	0.07	0.25	36
2-15-69	0.6	5				2.7	7.9	100		160		50			430
2-16-69	0.6	5				2.7	7.8	96		170		34			73
2-17-69	0.6	5		15.1	105	4.0	7.9	93		154		39			73
2-18-69	0.6	5		14.9	104	3.9	7.8	95		142		39			73
2-19-69	0.6	5		15.5	107	3.7	7.7	93		140		38			230
2-20-69	0.6	5		15.0	104	2.8	7.8	95		150		-			0
2-21-69	0.6	5	269			2.8	7.8	90	168	166		36			36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-22-69	0.6	5				3.3	7.7	92		150		46			0
2-23-69	0.6	5				3.2	7.7	96		144		57			36
2-24-69	0.6	5		15.3	106	2.8	7.8	91		150		46			0
2-25-69	0.6	5		14.8	103	2.7	7.7	90		142		43			36
2-26-69	0.6	5		14.4	100	1.9	7.8	92		150		49			0
2-27-69	0.6	5		14.2	99	2.7	7.7	90		158		49			0
2-28-69	0.6	5	342	14.0	97	2.5	7.7	90	214	176		48			0
Feb. Avg.	0.7	11	305	15.2	105	2.9	7.8	92	190	149	21	41	0.07	0.25	1,245
Max.	2.2	90	342	16.1	111	4.0	7.9	100	214	166	21	51	0.07	0.25	12,000
Min.	0.6	5	269	14.0	97	1.8	7.7	90	168	132	21	31	0.07	0.25	0
3-1-69	0.6	5		13.8	96	2.6	7.8	94		176		48			0
3-2-69	0.6	5				2.7	7.7	92		166		50			36
3-3-69	0.6	5		13.7	96	2.7	7.8	92		152		38			43
3-4-69	0.6	5		13.8	96	1.9	7.8	93		160		36			0
3-5-69	0.6	5		13.9	97	2.6	7.8	95		150		42			9
3-6-69	0.6	5		13.7	96	2.7	7.8	92		144		40			21
3-7-69	0.6	5	365	13.8	96	2.6	7.9	93	228	164	17	38			20
3-8-69	0.6	5		14.5	101	2.5	7.9	89		148		32			4
3-9-69	0.6	5				2.3	7.8	90		160		38			9
3-10-69	0.6	5		14.2	99	1.9	7.8	90		150		40			45
3-11-69	0.6	5		14.9	104	2.6	7.9	90		146		47			4
3-12-69	0.6	5		15.4	108	2.1	8.1	93		160		57			43
3-13-68	0.6	5		15.2	106	2.3	7.8	90		152		56			23
3-14-69	0.6	5	370			2.3	8.0	98	230	150	17	45	0.07	0.01	36
3-15-69	0.6	5		15.3	107	1.8	7.9	98		148		45			4
3-16-69	0.6	5				2.1	8.1	98		150		45			43
3-17-69	0.6	5		15.8	110	1.7	8.1	89		154		42			23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-18-69	0.6	5		16.1	112	1.7	8.1	90		148		42			23
3-19-69	0.6	5		16.5	115	1.8	8.1	90		148		41			4
3-20-69	0.6	5		16.0	112	1.5	8.2	90		142		38			0
3-21-69	0.6	5		15.7	110	1.4	8.3	86		136		38			93
3-22-69	0.6	5		15.4	108	1.6	8.2	88		140	19	38	0.11	0.02	91
3-23-69	0.6	5				1.6	8.2	95		150		34			230
3-24-69	1.1	5		14.9	106	1.7	8.1	86		146		32			
3-25-69	1.1	5		14.9	106	4.1	8.2	87		138		30			
3-26-69	1.7	250	420	14.0	101	4.2	7.9	97	262	138		31			9,300
3-27-69	2.8	180		13.2	98	5.2	7.9	92		148		30			9,300
3-28-69	3.3	100		13.0	98	5.1	7.9	90		140	7	36	1.50	0.05	4,300
3-29-69	3.9	100		14.1	108	5.9	7.9	90		138		32			7,500
3-30-69	3.9	100				6.2	7.9	92		144		33			730
3-31-69	2.8	190				4.7	7.9	91		138		31			4,300
March Avg.	1.1	34	385	14.7	104	2.8	8.0	92	240	149	15	40	0.56	0.03	1,249
Max.	3.9	250	420	16.5	115	6.2	8.3	98	262	176	19	57	1.50	0.05	9,300
Min.	0.6	5	365	13.0	96	1.4	7.7	86	228	136	7	30	0.07	0.01	0
4-1-69	2.8	120		13.8	102	3.8	7.9	91		142		33			4,300
4-2-69	3.3	80		14.0	105	5.2	7.8	90		144		39			2,300
4-3-69	3.3	70		13.4	101	3.8	7.9	93		138		37			360
4-4-69	3.3	10		14.3	107	2.5	7.9	92		134		30			360
4-5-69	3.3	15		13.8	104	3.5	7.9	90		140	17	36	0.70	0.15	360
4-6-69	3.3	40				3.8	7.9	88		134		30			0
4-7-69	4.4	20		14.0	108	3.2	7.8	86		160		75			230
4-8-69	5.6	20		13.8	110	3.2	7.9	87		144		39			73
4-9-69	6.1	80		12.7	102	3.0	7.9	80		190		111			230
4-10-69	6.7	30		13.0	106	4.1	8.0	90		170		44			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-11-69	7.2	30		12.8	106	3.9	7.9	88		144		38			91
4-12-69	7.2	20		12.7	105	3.6	8.0	90		152	17	48	0.50	0.40	950
4-13-69	7.8	50				3.6	7.8	80		164		84			230
4-14-69	7.8	10		12.4	104	3.3	8.0	87		160		48			91
4-15-69	7.8	10		13.9	117	2.9	8.1	86		148		48			36
4-16-69	8.3	10		12.9	110	3.4	7.9	83		174		53			36
4-17-69	8.9	10		14.1	121	2.4	8.2	89		152		39			91
4-18-69	9.4	50		13.0	113	4.1	8.1	85		176		80			930
4-19-69	8.9	275		11.8	102	3.1	8.1	90		150	22	49	0.00	1.50	4,300
4-20-69	7.8	200				3.0	8.1	84		162		36			2,300
4-21-69	7.2	120		13.1	108	3.0	7.9			152		34			360
4-22-69	7.2	140		12.0	99	2.2	8.0	87		140		37			360
4-23-69	8.9	200		11.5	99	2.6	7.9	90		158		35			360
4-24-69	8.3	180		10.3	87	2.1	8.0	88		148		40			750
4-25-69	8.9	190		11.8	102	3.0	7.9	90		166		48			360
4-26-69	10.0	150		11.5	102	4.2	7.9	88		154	17	44	0.85	0.78	4,300
4-27-69	11.1	100				5.3	7.9	100		160		37			1,400
4-28-69	12.2	40		10.3	96	2.7	7.8	90		148		39			2,300
4-29-69	11.7	90		10.2	94	4.5	7.8	88		146		38			360
4-30-69	11.1	110		11.1	101	4.9	7.8	90		154		37			0
Apr. Avg.	7.3	82		12.6	104	3.5	7.9	88		153	18	46	1.01	0.71	927
Max.	12.2	275		14.3	121	5.3	8.2	100		190	22	111	2.00	1.50	4,300
Min.	2.8	10		10.2	87	2.1	7.8	80		134	17	30	0.50	0.15	0
5-1-69	11.1	20		12.0	110	3.4	7.9	89		154		27			230
5-2-69	9.4	20		10.7	94	3.4	8.0	83		210		101			150
5-3-69	11.1	10		11.4	104	2.8	8.1	86		144	13	28	0.40	0.10	36
5-4-69	11.1	10				2.2	8.0	90		148		22			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
5-5-69	11.1	10		10.3	94	2.5	8.0	86		194		80			72
5-6-69	10.6	10		11.4	103	3.0	8.0	90		138		42			36
5-7-69	8.9	10		11.5	100	2.8	8.1	90		136		34			36
5-8-69	10.0	20		12.0	107	2.9	8.1	89		156		38			36
5-9-69	10.6	20		11.9	107	3.1	8.1	88		150		36			430
5-10-69	10.6	160		10.4	94	3.4	7.9	91		152	22	26	3.40	2.30	430
5-11-69	11.1	185				3.3	7.6			154		56			9,300
5-12-69	11.1	240		10.5	96	4.0	7.8	93		130		31			9,300
5-13-69	11.7	90		11.0	102	3.9	8.0	88		144		26			2,300
5-14-69	11.7	60		11.7	108	4.5	8.0			148		38			910
5-15-69	11.7	50		11.3	104	3.5	8.1	89		170		20			360
5-16-69	12.8	10		11.7	111	2.9	8.1	87		180		93			230
5-17-69	12.8	5		12.4	117	2.6	8.2	88		186	15	61	0.50	0.02	230
5-18-69	12.8	10				4.3	8.4	88		160		39			73
5-19-69	12.8	15		11.8	112	3.7	8.1	90		152		33			930
5-20-69	12.8	15		11.7	111	3.9	8.2	87		126		29			430
5-21-69	12.2	50		11.3	106	3.5	8.2	90		150		42			750
5-22-69	13.3	30		11.1	106	3.3	8.1	85		150		54			2,400
5-23-69	13.3	20		11.0	106	2.9	8.0	86		162		63			430
5-24-69	12.2	5		11.3	106	2.4	8.1	92		156	16	39	0.38	0.08	750
5-25-69	13.3	5				2.3	8.3	90		210		45			2,100
5-26-69	12.2	15		12.1	113	2.7	8.1	88		148		47			230
5-27-69	12.2	10		12.0	112	2.3	8.0	88		148		15			73
5-28-69	11.1	5				1.9	7.8	89		158		27			0
5-29-69	13.3	10		14.0	134	1.9	8.2	89		150		35			430
5-30-69	14.4	10		15.1	146	2.0	8.2	88		130		40			91
5-31-69	15.6	10	485			2.2	8.5	90	302	134	11	33	0.15	0.03	91
May Avg.	11.9	37	485	11.6	10.6	3.0	8.1	89	302	156	15	42	0.97	0.51	1,060
Max.	15.6	240	485	15.1	146	4.5	8.5	93	302	210	22	101	3.40	2.30	9,300
Min.	8.9	5	485	10.3	94	1.9	7.6	83	302	126	11	15	0.15	0.02	0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palnesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-1-69	14.4	10				2.2	8.5	86		140		53			36
6-2-69	15.0	10				2.6	8.5	90		130		31			36
6-3-69	15.0	60				3.4	7.7	105		138		36			430
6-4-69	15.0	150				4.4	7.8	100		140		29			11,000
6-5-69	15.6	100		10.2	102	4.2	8.1	96		136		28			9,300
6-6-69	15.6	40		10.5	105	4.7	8.0	95		146		27			2,300
6-7-69	15.6	15		10.0	100	5.0	8.1	96		138	14	28	0.39	0.14	360
6-8-69	14.4	20		9.8	96	4.7	8.0	100		156		38			360
6-9-69	15.6	40		10.5	105	3.8	8.0	95		214		110			230
6-10-69	15.0	20		10.4	103	3.8	8.0	97		160		57			2,400
6-11-69	14.4	15		10.6	104	2.3	8.1	94		136		29			930
6-12-69	15.6	70		2.4	24	11.1	8.1	95		136		31			150
6-13-69	16.7	40		11.2	115	2.4	8.1	97		140		30			230
6-14-69	16.7	20		11.6	119	2.6	7.9	97		134	15	28	0.25	0.04	430
6-15-69	16.7	30				2.9	7.9	98		170		41			230
6-16-69	16.7	15		10.2	104	2.8	8.0	94		148		54			91
6-17-69	17.2	20		10.8	112	2.3	8.1	93		140		38			91
6-18-69	17.2	30		11.3	117	2.4	8.1	96		146		40			0
6-19-69	17.2	20				2.4	8.1	98		150		34			230
6-20-69	17.2	60		10.9	113	2.8	8.1	96		138		32			73
6-21-69	17.2	50		10.9	113	3.3	7.9	96		150	15	53	0.60	0.20	73
6-22-69	17.2	5				3.0	8.0	96		140		36			91
6-23-69	16.1	5		9.7	98	2.4	7.8	92		146		34			91
6-24-69	15.6	5		10.6	106	2.4	8.0	95		150		37			91
6-25-69	14.4	5		9.3	91	2.5	7.9	95		136		31			91
6-26-69	13.9	5		9.8	95	3.4	8.0	95		160		49			36
6-27-69	17.8	10		10.4	109	3.0	7.8	92		150		35			36
6-28-69	20.0	5				3.2	7.9	100		130		33			430
6-29-69	20.0	5				3.1	8.0	90		142		30			36
6-30-69	18.9	10		11.2	120	3.5	7.9	96		146		47			230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
June Avg.	16.2	30		9.9	100	3.4	8.0	96		146	15	39	0.41	0.13	1,004
Max.	20.0	150		11.6	119	11.1	8.5	105		214	15	110	0.60	0.20	11,000
Min.	13.9	5		2.4	24	2.2	7.7	86		130	14	27	0.25	0.04	0
7-1-69	18.9	20		11.1	118	2.0	7.9	92		136		24			91
7-2-69	18.9	30		11.1	118	1.9	7.9	94		150		39			230
7-3-69						1.9	7.9	96		148		28			430
7-4-69	20.0	5				1.9	7.9	98		160		46			36
7-5-69	20.0	30				1.9	8.0	94		154		31			230
7-6-69	20.0	10				1.9	7.9	97		144		30			930
7-7-69	20.0	80				1.8	7.8	80		150		61			2,100
7-8-69	19.4	50				2.0	7.6	95		144		40			750
7-9-69	18.9	40		8.7	93	2.0	7.8	92		160		17			360
7-10-69	19.4	30		8.6	93	2.2	7.8	97		270					150
7-11-69	18.3	15		9.3	98	2.1	7.8	96		152		34			430
7-12-69	20.6	10		6.7	74	2.0	7.4	97		142	15	33	0.50	0.02	930
7-13-69	20.6	20		10.7	118	1.8	8.0	97		144		31			910
7-14-69	21.7	5		14.4	161	2.2	8.6	96		146		32			430
7-15-69	21.7	5		13.1	147	2.1	8.4	93		142		27			36
7-16-69	21.7	5		10.3	115	2.0	8.3	96		128		29			36
7-17-69	23.9	10		9.1	106	1.8	8.5	93		120		28			36
7-18-69	23.9	5		11.0	128	1.8	8.4	95		134		26			36
7-19-69	22.8	5	406	8.1	93	1.9	8.0	96	254	130	14	29	0.30	0.04	36
7-20-69	20.0	5		8.0	87	2.1	7.7	96		140		30			91
7-21-69	20.6	5		8.5	94	2.0	7.7	99		128		28			430
7-22-69	19.4	5		7.2	78	2.1	7.7	98		150		29			91
7-23-69	17.8	5		5.5	57	2.0	7.5	100		134		31			230
7-24-69	12.8	5		8.0	76	2.1	7.6	97		126		28			
7-25-69	20.0	5		10.5	114	2.0	7.8	92		130		24			

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palnesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-26-69	22.2	5		11.7	132	1.7	8.1	96		138	16	24	0.07	0.09	
7-27-69	23.3	5				1.9	8.0	94		144		58			36
7-28-69	22.8	10		9.5	109	1.9	7.9	93		126		26			930
7-29-69	23.3	40		8.0	92	1.9	7.8	97		134		23			4,600
7-30-69	23.3	5		7.7	89	1.8	7.9	92		134		23			1,500
7-31-69	22.8	5		8.6	98	2.1	8.3	96		124		28			930
July Avg.	20.6	16	406	9.4	104	2.0	7.9	95	254	144	15	31	0.36	0.05	608
Max.	23.9	80	406	14.4	161	2.2	8.6	100	254	270	16	61	0.50	0.09	4,600
Min.	12.8	5	406	5.5	57	1.7	7.4	80	254	120	14	17	0.25	0.02	36
8-1-69	23.3	5		9.3	107	2.6	8.1	94		134		26			230
8-2-69	23.3	5	193	8.7	100	2.6	8.1		309	120	14	24	0.25	0.04	430
8-3-69	23.9	5				2.8	8.1	97		120		22			110
8-4-69	23.9	5		8.8	103	2.5	8.0	95		136		39			150
8-5-69	23.9	5		8.8	103	3.1	8.1	94		160		61			36
8-6-69	23.9	5		9.8	114	2.6	8.4	102		150		40			200
8-7-69	23.9	5		10.4	121	2.8	8.2	95		132		33			150
8-8-69	24.4	15		9.1	107	2.6	8.2	100		130		28			930
8-9-69	24.4	10	320	9.8	115	2.6	8.1	97	200	132	17	24	0.45	0.40	930
8-10-69	24.4	5		9.0	106	2.7	8.2	93		134		30			2,100
8-11-69	23.3	5		9.4	108	2.9	8.3	94		136		34			24,000
8-12-69	23.3	5		8.7	100	2.5	8.3	96		168		71			4,600
8-13-69	23.3	5		8.5	98	2.8	8.3	97		160		72			110
8-14-69	23.3	5		9.0	104	2.5	8.3	96		162		78			200
8-15-69	23.9	5				2.3	8.5	95		158		64			230
8-16-69	23.3	5	496	10.2	118	2.7	8.3	94	310	160	15	62	0.50	0.04	750
8-17-69	23.9	5		9.5	111	2.9	8.5	98		146		48			930
8-18-69	23.3	5		9.2	106	2.5	8.4	95		146		39			930
8-19-69	24.4	5		10.8	127	2.7	8.5	93		128		30			750

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-20-69	23.9	10		9.3	108	2.7	8.5	96		152		54			930
8-21-69	23.3	5		9.1	105	3.4	8.5	97		148		47			2,100
8-22-69	23.3	5		8.2	95	1.6	8.4	97		154		56			24,000
8-23-69	23.3	5	550	8.7	100	2.4	8.4	97	344	150	15	28	0.01	0.04	2,400
8-24-69	23.3	5		9.2	106	2.2	8.6	97		146		49			36
8-25-69	23.3	5		9.0	104	2.2	8.5	93		122		38			36
8-26-69	23.3	5		8.8	102	2.3	8.5	90		134		35			390
8-27-69	23.9	5		8.7	101	2.3	8.5	93		150		55			2,400
8-28-69	23.9	5		8.0	93	2.0	8.4	94		138		47			390
8-29-69	23.9	5		8.2	96	1.9	8.5	93		134		11			1,500
8-30-69	23.9	5		8.2	96	2.0	8.5	94		130	17	35	0.20	0.04	930
8-31-69	23.3	5	301			2.0	8.5	92	188	140		48			36
Aug. Avg.	23.7	6	372	9.1	106	2.5	8.3	95	270	142	16	43	0.30	0.13	2,352
Max.	24.4	15	550	10.8	127	3.4	8.6	102	344	168	17	78	0.50	0.40	24,000
Min.	23.3	5	193	8.0	93	1.6	8.0	90	188	120	14	11	0.01	0.04	36
9-1-69	24.4	5				2.4	8.4	94		120		43			73
9-2-69	24.4	5		7.6	89	2.7	8.4	95		134		31			430
9-3-69	23.9	5		7.0	82	2.0	8.3	95		160		74			73
9-4-69	23.9	5		6.1	71	2.9	8.2	97		176		75			210
9-5-69	22.8	5		5.5	63	2.8	7.9	97		170		57			2,100
9-6-69	22.8	5		7.2	82	2.2	8.2	97		148	15	55	0.20	0.04	2,100
9-7-69	23.3	5				2.0	8.3	102		140		33			1,200
9-8-69	23.3	5		7.3	84	2.1	8.3	92		124		28			430
9-9-69	23.3	80		7.7	89	2.4	8.4	98		132		18			11,000
9-10-69	22.2	20		8.0	91	2.2	8.3	95		136		33			200
9-11-69	21.1	75		8.3	92	2.1	8.3	90		138		33			1,500
9-12-69	21.1	15		8.0	89	2.0	8.3	96		144		13			1,500

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
9-13-69	21.1	30		7.9	88	2.3	8.2	98		136	20	33	0.20	0.40	11,000
9-14-69	21.1	10		9.0	100	2.6	8.3	97		140		32			1,200
9-15-69	21.0	10		8.0	89	2.2	8.4	100		140		33			11,000
9-16-69	22.2	10		8.8	100	2.4	8.4	99		132		33			11,000
9-17-69	21.1	5		8.1	90	3.5	8.4	97		130		36			240,000
9-18-69	20.0	20		7.8	85	3.1	8.3	96		216		116			4,600
9-19-69	20.0	15		8.0	87	2.4	8.3	95		204		73			21,000
9-20-69	18.9	10	460	8.2	88	2.1	8.3	97	288	158	15	61	0.20	0.07	4,300
9-21-69	18.9	10				1.9	8.3	92		138		42			430
9-22-69	19.4	5	541	8.7	94	1.8	8.4	96	338	160		66	0.10	0.34	160
9-23-69	18.9	5	438	9.3	99	2.4	8.3	97	274	160		78			930
9-24-69	20.6	10				2.6	8.4	96		170		57			1,200
9-25-69	18.9	10		10.4	111	1.9	8.3	97		182		57			1,500
9-26-69	18.9	5		5.9	63	1.5	8.4	97		148		56			930
9-27-69	18.9	5		11.2	120	1.9	8.5	98		154	17	51	0.40	0.04	430
9-28-69	18.3	10				2.3	8.5	96		150		45			930
9-29-69	17.8	5		10.9	114	2.3	8.5	98		154		47			1,500
9-30-69	17.8	10		10.9	114		8.4	97		164		58			4,300
Sep. Avg.	21.1	14	480	8.1	90	2.3	8.3	96	300	152	16	48	0.22	0.17	11,241
Max.	24.4	80	541	11.2	120	3.5	8.5	102	338	216	20	116	0.40	0.40	240,000
Min.	17.8	5	438	5.5	63	1.5	7.9	90	274	120	15	13	0.10	0.04	73
10-1-69	18.9	5		11.1	118	1.8	8.3	108		152		44			2,300
10-2-69	18.3	5		11.2	118	2.1	8.1	102		130		43			15,000
10-3-69	17.8	5		11.4	119	2.1	8.4	100		136		42			4,300
10-4-69	17.8	5		11.1	116	2.3	8.3	108		138		43			1,500
10-5-69	17.8	5				2.2	8.2	98		178		61			2,400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
10-6-69	17.8	5		11.4	119	1.8	8.4	98		140		65			36
10-7-69	18.3	5		11.2	118	1.6	8.5	108		146		43			930
10-8-69	18.3	10		11.2	118	1.8	8.4	97		150		28			930
10-9-69	18.3	25		11.4	120	1.5	7.9	110		120		28			2,400
10-10-69	17.8	10		11.0	115	2.1	8.1	100		130		30			4,600
10-11-69	17.2	5		11.1	115	1.8	8.4	97		142		30			930
10-12-69	17.8	10				2.1	8.2	98		132		39			430
10-13-69	17.8	5		10.7	112	2.0	8.2	100		142		57			930
10-14-69	17.2	95		10.6	110	2.7	8.1	103		102		34			11,000
10-15-69	16.7	80		10.5	107	3.4	8.1	100		150		32			750
10-16-69	15.6	100		10.3	103	3.8	8.1	96		140		34			430
10-17-69	15.6	250		10.5	105	4.7	7.9	102		134		39			24,000
10-18-69	15.6	170				4.4	7.9	92		132		36			4,300
10-19-69	15.6	140				2.4	7.9	92		136		42			2,300
10-20-69	13.9	170		11.2	108	2.1	7.9	99		136		33			910
10-21-69	14.4	160		11.3	111	2.8	7.8	100		132		28			2,800
10-22-69	14.4	180		10.5	103	2.3	8.0	103		180		27			4,300
10-23-69	11.0	130		10.7	97	1.9	8.0	100		132		28			4,300
10-24-69	11.0	10		10.6	97	1.2	8.2	99		134		31			910
10-25-69	12.2	10		10.7	100	1.7	8.2	98		142		29			910
10-26-69	12.2	10				1.0	8.3	100		148		38			910
10-27-69	12.2	70		10.5	98	1.5	8.2	96		138	18	29	0.70	0.40	2,300
10-28-69	12.2	100		11.0	103	1.3	8.2	98		158		34			7,500
10-29-69	13.3	5		10.7	102	1.8	8.1	99		174		31			7,500
10-30-69	12.2	5		10.7	100	1.8	8.2	98		168		59			2,300
10-31-69	12.2	5		11.0	103	1.5	8.2	97		158		65			360
Oct. Avg.	15.5	57		10.9	109	2.2	8.1	100		143	18	38	0.70	0.40	3,692
Max.	18.9	250		11.4	120	4.7	8.5	110		180	18	65	0.70	0.40	24,000
Min.	11.0	5		10.3	97	1.0	7.8	92		102	18	27	0.70	0.40	36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-1-69	11.7	5	474	11.1	103	1.4	8.2	96	296	158	13	55	0.25	0.08	360
11-2-69	12.2	5				1.5	8.2	93		142		22			910
11-3-69	12.2	15		10.8	101	1.5	8.2	92		136		29			910
11-4-69	11.1	20		10.2	93	1.5	8.2	99		140		28			910
11-5-69	10.6	125		10.4	94	1.6	7.9	100		100		28			2,300
11-6-69	7.2	250		10.6	89	1.6	8.2	101		124		9			4,300
11-7-69	10.0	10		10.3	92	2.0	8.2	10		158		30			360
11-8-69	10.0	30	464	10.5	94	2.2	8.1	99	290	168	18	68	0.70	0.40	1,500
11-9-69	10.6	20		10.4	94	2.0	8.1	102		164		42			360
11-10-69	11.1	10		10.7	98	1.8	8.1	97		150		34			910
11-11-69	10.6	15		10.5	95	1.9	8.1	98		146		42			360
11-12-69	11.1	30		10.6	97	2.2	8.1	98		142		35			4,300
11-13-69	10.6	40		10.6	96	2.4	8.0	99		138		32			11,000
11-14-69	10.0	80		10.4	93	4.8	7.9	98		152		28			1,500
11-15-69	7.8	170	310	11.0	92	2.8	8.0	96	194	140	20	26	1.30	1.60	24,000
11-16-69	6.7	160				3.2	8.0	94		140		32			3,900
11-17-69	6.7	75		11.1	91	2.5	7.9	96		128		30			24,000
11-18-69	6.7	15		11.7	96	3.6	8.0	15		148		56			4,300
11-19-69	6.7	40		11.3	92	3.5	8.0	93		160		42			2,300
11-20-69	7.2	290		11.4	94	4.1	7.9	93		140		29			21,000
11-21-69	6.7	260		11.6	95	3.6	7.9	93		130		30			15,000
11-22-69	6.1	260	323	11.7	94	3.2	7.9	93	202	130	19	30	1.72	1.20	15,000
11-23-69	5.6	150				3.3	7.8	96		120		31			110,000
11-24-69	6.7	70		11.6	95	2.7	7.9	94		130		31			9,300
11-25-69	6.7	15		11.5	94	2.5	8.1	93		130		32			7,500
11-26-69	6.1	60		11.8	95	2.5	8.0	90		128		31			12,000
11-27-69	6.1	60				2.5	7.9	91		162		31			430
11-28-69	6.1	10		11.8	95	2.0	8.0	90		146		24			910

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-29-69	6.1	70	250	12.0	97	2.0	8.0	95	156	146	17	29	0.63	0.14	2,300
11-30-69	5.6	50				2.6	8.0	93		182		24			910
Nov. Avg.	8.4	80	364	11.0	94	2.5	8.0	90	228	143	17	33	0.92	0.68	9,428
Max.	12.2	290	474	12.0	103	4.8	8.2	102	296	182	20	68	1.72	1.60	110,000
Min.	5.6	5	250	10.2	89	1.4	7.8	10	156	100	13	9	0.25	0.08	360
12-1-69	5.6	40		12.2	97	3.7	7.8	97		124		26			9,300
12-2-69	5.6	30		12.0	96	1.8	8.1	94		124		26			2,300
12-3-69	5.6	180		12.3	98	2.7	8.1	98		130		29			9,300
12-4-69	5.0	180		12.8	100	2.7	8.1	94		132		29			2,300
12-5-69	4.4	170		12.9	100	3.0	8.1	102		188		31			910
12-6-69	3.9	80	291	12.7	97	2.1	8.1	80	182	130	19	30	1.20		2,300
12-7-69	3.9	85				2.3	8.2	100		144		29			2,300
12-8-69	3.9	110		12.8	98	2.3	8.1	94		126		30			1,500
12-9-69	4.4	15		12.5	97	1.3	8.1	97		134		30			2,400
12-10-69	4.4	30		12.5	97	1.7	8.0	93		150		31			2,100
12-11-69	4.4	90		12.8	99	2.0	8.1	96		188		68			2,300
12-12-69	4.4	210		12.8	99	3.2	8.1	90		150		33			46,000
12-13-69	4.4	130		12.7	98	5.2	8.0	92		138	20	32	1.55	1.20	24,000
12-14-69	3.3	140				4.8	8.0	94		140		35			9,300
12-15-69	3.3	40		12.5	94	1.8	8.0	93		134		7			24,000
12-16-69	3.3	30		13.2	99	2.3	8.1	94		138		26			4,300
12-17-69	3.3	70		12.7	95	1.9	8.1	93		136		29			24,000
12-18-69	3.3	20		13.0	98	2.3	8.0	93		134		27			4,300
12-19-69	3.3	130		13.0	98	5.4	7.9	92		138		41			24,000
12-20-69	2.8	120		13.2	98	5.1	8.0	94		142	20	38	2.30	2.60	24
12-21-69	2.8	100				5.4	7.9	95		126		47			24,000

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
12-22-69	2.8	70		13.2	98	3.6	7.9	94		150		47			360
12-23-69	1.1	80		14.0	99	2.6	7.9	92		168		57			2,300
12-24-69	0.6	100		13.8	96	2.7	7.9	97		164		75			360
12-25-69	0.6	120				3.8	7.8	96		180		60			730
12-26-69	0.6	30				2.8	7.8	95		158		59			360
12-27-69	1.1	90				3.3	7.9	91		138		53			360
12-28-69	1.1	100				2.2	7.8	95		138		44			230
12-29-69	1.1	10		14.0	99	2.2	7.9	91		110		38			930
12-30-69	1.1	10		14.0	99	2.5	8.0	90		156		53			91
12-31-69	1.7	140		14.1	102	2.7	7.9	89		200		109			36
Dec. Avg.	3.1	88	291	13.0	97	2.9	7.9	94	182	145	19	40	1.68	1.90	7,313
Max.	5.6	210	291	14.1	102	5.4	8.2	102	182	200	20	109	2.30	2.60	46,000
Min.	0.6	10	291	12.0	94	1.3	7.8	80	182	110	19	7	1.20	1.20	24

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-69	1.0	150				3.7	7.7	80		140					24,000
1-2-69	1.0	100				2.4	7.7	82		128					9,300
1-3-69	1.0	40				1.9	7.8	80		122					4,300
1-4-69	1.0	40				1.9	7.9	84		126					4,300
1-5-69	1.0	30				1.6	7.9	88		138					4,300
1-6-69	0.6	30				1.5	7.8	88		128					2,300
1-7-69	0.9	45				1.6	7.9	86		130					4,300
1-8-69	0.8	10				1.2	8.0	92		132					2,300
1-9-69	0.8	50				1.8	7.8	86		130					9,300
1-10-69	1.0	25				2.0	7.9	90		140					2,300
1-11-69	1.0	17				2.1	7.8	88		138					2,300
1-12-69	1.2	20				2.4	7.7	88		142					1,100
1-13-69	1.0	15				2.0	7.8	90		144					910
1-14-69	1.0	8				1.9	7.7	92		140					910
1-15-69	1.0	8				2.1	7.7	90		142					430
1-16-69	1.0	8				2.3	7.7	90		138					230
1-17-69	1.0	4				2.2	7.7	86		142					230
1-18-69	1.0	4				2.1	7.7	90		138					36
1-19-69	1.0	4				2.0	7.6	88		140					91
1-20-69	1.0	4				2.0	7.7	90		140					230
1-21-69	1.0	4				1.8	7.6	90		138					91
1-22-69	1.2	4				2.1	7.8	90		140					230
1-23-69	0.8	4				1.9	7.9	94		138					150
1-24-69	1.3	4				2.2	7.9	90		138					930
1-25-69	1.2	50				3.7	7.9	86		142					1,500
1-26-69	1.0	65				2.8	7.7	86		138					750
1-27-69	0.8	45				3.3	7.7	86		134					910
1-28-69	0.8	20				2.7	7.7	86		134					2,300
1-29-69	1.0	25				2.8	7.7	88		136					910

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-30-69	1.0	15				2.7	7.7	88		138					2,300
1-31-69	1.0	8				2.8	7.9	90		136					910
Jan. Avg.	0.9	27				2.2	7.8	88		136					2,684
Max.	1.3	150				3.7	8.0	94		144					24,000
Min.	0.6	4				1.2	7.6	80		122					36
2-1-69	1.4	8				2.9	7.9	88		144					910
2-2-69	1.6	30				3.7	7.8	86		140					910
2-3-69	1.8	45				2.9	7.9	86		136					2,300
2-4-69	1.0	90				2.6	7.7	82		130					4,300
2-5-69	0.8	50				3.1	7.6	82		130					2,300
2-6-69	0.8	45				3.1	7.7	86		130					-
2-7-69	0.9	45				3.4	7.5	84		128					2,300
2-8-69	1.0	20				2.7	7.8	90		128					910
2-9-69	0.8	25				3.1	7.7	86		134					1,500
2-10-69	0.9	20				2.6	7.7	88		132					910
2-11-69	0.8	15				2.7	7.7	86		132					1,500
2-12-69	0.8	10				2.7	7.7	86		134					360
2-13-69	0.8	15				2.7	7.7	86		132					360
2-14-69	1.0	8				3.2	7.7	88		130					36
2-15-69	1.0	8				2.6	7.7	88		136					91
2-16-69	1.0	4				2.4	7.7	86		134					91
2-17-69	1.0	4				2.4	7.7	86		136					91
2-18-69	1.0	8				2.7	7.7	88		134					150
2-19-69	1.0	4				2.7	7.7	84		134					73
2-20-69	1.0	4				2.9	7.7	86		134					91
2-21-69	1.1	4				2.0	7.7	88		138					73
2-22-69	1.1	4				2.4	7.8	86		134					150
2-23-69	1.1	4				1.9	7.8	86		134					230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-24-69	1.0	4				2.3	7.7	88		134					91
2-25-69	1.0	4				2.1	7.8	88		136					91
2-26-69	1.0	4				2.0	7.9	88		136					91
2-27-69	1.0	4				2.0	7.8	86		136					91
2-28-69	1.0	4				1.5	7.9	86		134					36
Feb. Avg.	1.0	17				2.6	7.7	86		134					742
Max.	1.8	90				3.7	7.9	90		144					4,300
Min.	0.8	4				1.5	7.5	82		128					36
3-1-69	1.0	4				1.7	7.9	90		134					91
3-2-69	1.0	4				1.4	7.8	92		136					91
3-3-69	1.0	4				1.4	7.9	88		134					36
3-4-69	1.0	4				1.8	7.9	90		136					73
3-5-69	1.1	4				1.8	7.9	86		136					36
3-6-69	1.3	4				1.6	7.9	86		138					36
3-7-69	1.3	4				1.6	7.9	86		138					0
3-8-69	1.2	4				1.2	8.1	90		134					0
3-9-69	1.0	4				1.3	8.0	82		136					43
3-10-69	1.0	4				1.2	8.1	90		136					4
3-11-69	1.0	4				1.6	8.1	90		134					23
3-12-69	1.0	4				1.3	8.1	90		134					9
3-13-69	1.0	4				1.3	8.1	84		132					9
3-14-69	1.0	4				1.4	8.1	90		128					9
3-15-69	1.0	4				1.2	8.1	90		130					15
3-16-69	1.0	4				1.2	8.1	86		132					15
3-17-69	1.0	4				1.3	8.2	86		134					15
3-18-68	1.2	8				1.3	8.2	88		136					9
3-19-69	1.2	4				1.1	8.2	96		134					4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-20-69	1.3	4				1.6	8.3	90		130					4
3-21-69	2.2	8				1.3	8.2	90		130					4
3-22-69	1.8	8				1.5	8.1	88		136					23
3-23-69	1.3	8				1.5	8.2	88		144					4
3-24-69	1.6	4				1.3	8.2	86		144					4
3-25-69	2.0	4				1.4	8.2	88		142					4
3-26-69	2.2	110				1.9	8.0	86		144					460
3-27-69	2.5	140				3.2	7.9	88		142					430
3-28-69	3.0	110				3.9	7.9	82		144					430
3-29-69	3.2	120				4.1	7.9	86		140					430
3-30-69	3.4	110				4.0	7.8	86		140					230
3-31-69	3.2	100				4.9	7.8	86		138					1,500
Mar. Avg.	1.5	26				1.8	8.0	87		136					130
Max.	3.4	140				4.9	8.4	96		144					1,500
Min.	1.0	4				1.1	7.8	82		128					0
4-1-69	3.5	160				4.7	7.9	86		144					930
4-2-69	3.2	90				4.1	7.8	88		136					430
4-3-69	3.5	75				4.0	7.7	86		132					930
4-4-69	3.5	45				3.4	7.9	86		126					230
4-5-69	4.0	45				2.9	7.8	90		134					150
4-6-69	4.0	65				2.8	7.8	86		132					91
4-7-69	4.5	45				2.6	7.9	92		128					36
4-8-69	5.0	50				2.5	8.0	84		126					91
4-9-69	5.5	55				2.5	8.0	84		126					430
4-10-69	6.5	40				2.6	8.0	86		128					430
4-11-69	6.8	45				2.8	7.9	82		132					150
4-12-69	7.0	40				2.6	7.8	84		136					36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-13-69	6.8	30				2.2	7.9	84		132					36
4-14-69	6.2	25				1.4	8.2	84		132					0
4-15-69	6.0	20				1.4	8.1	90		132					0
4-16-69	6.8	20				2.1	8.1	88		134					0
4-17-69	8.0	25				1.7	8.1	90		140					39
4-18-69	8.6	40				1.9	8.1	86		142					23
4-19-69	7.5	180				2.7	7.9	84		132					430
4-20-69	7.0	95				2.7	7.9	86		134					430
4-21-69	7.0	80				2.5	7.9	80		130					150
4-22-69	7.5	105				2.6	7.9	84		126					230
4-23-69	7.6	125				2.5	7.9	86		126					430
4-24-69	7.8	160				2.7	-	84		130					930
4-25-69	8.0	130				2.3	7.9	86		132					430
4-26-69	8.2	80				2.8	7.9	82		152					430
4-27-69	9.2	70				2.7	7.9	86		150					430
4-28-69	10.2	70				3.2	7.8	86		140					430
4-29-69	10.3	80				3.9	7.7	86		142					430
4-30-69	10.5	50				3.6	7.7	88		148					230
Apr. Avg.	6.6	71				2.7	7.9	85		134					300
Max.	10.5	180				4.7	8.2	92		152					930
Min.	3.2	20				1.4	7.7	80		126					0
5-1-69	10.0	40				4.1	7.8	88		144					91
5-2-69	8.4	20				2.6	7.6	88		134					91
5-3-69	10.2	85				3.1	7.8	86		130					0
5-4-69	10.4	25				2.6	7.8	90		130					0
5-5-69	9.5	20				2.5	7.7	92		128					36
5-6-69	10.0	15				2.5	7.8	90		132					36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-7-69	7.5	10				2.1	7.7	88		128					91
5-8-69	8.0	20				1.9	7.7	90		130					91
5-9-69	8.5	20				2.0	7.7	88		132					230
5-10-69	10.5	140				2.1	7.9	88		134					230
5-11-69	10.5	140				2.0	7.8	88		134					1,500
5-12-69	11.0	150				2.1	7.8	88		134					11,000
5-13-69	11.0	70				2.6	7.8	86		130					1,500
5-14-69	12.0	90				2.9	7.6	84		132					430
5-15-69	11.5	30				2.3	7.7	90		128					73
5-16-69	10.5	20				1.5	7.8	88		124					91
5-17-69	11.5	25				1.8	7.9	84		124					430
5-18-69	12.6	50				1.9	8.0	88		128					230
5-19-69	12.0	40				1.7	7.8	86		126					36
5-20-69	12.5	50				1.8	7.8	84		128					2,400
5-21-69	13.2	55				2.2	8.0	86		146					430
5-22-69	1.3	45				1.6	8.1	84		136					200
5-23-69	11.0	20				1.7	7.6	88		124					230
5-24-69	10.5	25				1.5	7.7	90		122					230
5-25-69	10.5	25				1.5	7.6	86		122					230
5-26-69	13.0	80				1.6	7.9	90		124					750
5-27-69	10.2	20				1.6	7.6	90		124					230
5-28-69	10.8	35				1.5	7.7	92		124					36
5-29-69	13.0	25				1.3	8.1	88		134					91
5-30-69	14.0	25				1.3	8.1	88		128					91
5-31-69	15.0	20				1.8	8.1	92		128					0
May Avg.	10.7	46				2.1	7.8	88		129					680
Max.	15.0	150				4.1	8.1	92		146					11,000
Min.	1.3	10				1.3	7.6	84		122					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-1-69	12.8	20				1.6	7.9	86		128					0
6-2-69	15.8	30				1.7	8.2	90		130					430
6-3-69	15.5	65				1.8	8.2	86		130					230
6-4-69	14.6	145				2.5	7.8	88		140					930
6-5-69	14.5	80				2.9	7.9	88		140					430
6-6-69	15.8	70				3.1	7.9	86		138					930
6-7-69	15.8	60				2.9	7.8	90		136					230
6-8-69	15.5	50				3.1	7.8	88		136					390
6-9-69	15.5	95				2.7	7.7	90		138					230
6-10-69	14.8	30				1.8	8.0	90		130					0
6-11-69	14.0	20				2.2	8.1	92		128					36
6-12-69	14.2	30				2.0	7.8	92		124					230
6-13-69	16.4	50				2.0	7.9	88		128					91
6-14-69	17.0	40				2.5	7.9	90		134					91
6-15-69	16.2	90				2.7	7.8	90		132					36
6-16-69	15.0	100				2.3	7.8	92		128					91
6-17-69	15.0	40				2.1	7.7	90		132					91
6-18-69	16.0	30				1.8	7.9	90		130					91
6-19-69	16.8	45				2.1	7.9	90		130					36
6-20-69	17.0	20				1.8	7.9	90		132					36
6-21-69	16.7	85				1.8	7.7	92		136					230
6-22-69	15.8	25				2.1	7.6	90		132					36
6-23-69	13.5	50				1.9	7.4	90		128					230
6-24-69	16.0	30				2.0	7.7	90		130					91
6-25-69	13.5	30				1.8	7.4	92		126					0
6-26-69	12.5	20				2.1	7.4	96		128					230
6-27-69	15.5	8				1.7	7.5	92		128					0
6-28-69	18.0	25				1.5	7.7	90		132					0
6-29-69	18.8	15				1.6	7.9	136		-					150
6-30-69	18.5	15				1.7	8.1	90		138					230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	%Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
															194
June Avg.	15.6	47				2.1	7.8	91		131					930
Max.	18.8	145				3.1	8.2	136		140					0
Min.	12.5	8				1.5	7.4	86		124					
															430
7-1-69	19.4	40				1.8	8.1	90		136					230
7-2-69	19.5	20				2.3	7.9	92		136					91
7-3-69	20.0	10				2.0	7.9	92		136					91
7-4-69	19.9	10				2.2	7.9	92		132					91
7-5-69	20.0	35				2.7	7.9	92		130					150
7-6-69	20.0	45				2.6	7.8	94		134					230
7-7-69	14.0	90				2.9	7.6	90		134					930
7-8-69	14.0	55				1.8	7.5	92		136					61
7-9-69	13.8	65				1.9	7.3	98		134					91
7-10-69	14.0	20				1.8	7.5	98		136					230
7-11-69	14.8	20				2.0	7.4	96		136					91
7-12-69	18.2	15				1.5	8.0	92		132					91
7-13-69	20.0	10				1.8	8.1	94		140					91
7-14-69	20.8	20				1.8	8.3	94		138					230
7-15-69	20.2	10				2.6	8.1	94		134					91
7-16-69	20.0	8				1.9	8.1	94		132					0
7-17-69	21.5	8				2.2	8.1	92		132					36
7-18-69	23.0	25				2.8	8.3	88		126					91
7-19-69	20.3	15				2.3	7.9	90		132					91
7-20-69	17.8	8				2.5	7.5	92		140					36
7-21-69	17.5	8				2.2	7.5	92		138					230
7-22-69	18.0	20				2.0	7.7	92		136					36
7-23-69	17.2	8				1.8	7.7	94		136					91
7-24-69	16.8	8				2.1	7.5	96		134					0
7-25-69	18.0	8				1.4	7.9	94		136					

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-26-69	21.5	20				1.6	8.3	92		134					230
7-27-69	22.0	10				1.6	8.1	88		132					430
7-28-69	22.7	8				2.0	8.3	90		130					230
7-29-69	23.0	15				2.1	8.1	90		130					150
7-30-69	23.0	20				2.3	8.1	90		130					230
7-31-69	23.0	10				2.3	7.9	92		134					210
July Avg.	19.2	21				2.1	7.9	92		134					171
Max.	23.0	90				2.9	8.3	98		140					430
Min.	13.8	8				1.4	7.3	88		126					0
8-1-69	23.2	15				2.3	8.1	96		138					430
8-2-69	23.5	8				2.3	8.0	90		136					230
8-3-69	24.0	4				2.1	8.1	90		132					150
8-4-69	24.0	4				2.4	7.9	92		138					91
8-5-69	23.0	4				2.3	7.8	90		136					0
8-6-69	23.2	8				2.4	7.9	96		134					36
8-7-69	23.7	10				2.1	8.1	92		134					230
8-8-69	24.5	25				2.1	8.3	88		132					91
8-9-69	24.2	25				2.2	8.3	90		140					91
8-10-69	23.8	30				2.2	8.1	86		140					430
8-11-69	23.8	8				2.2	8.3	88		156					230
8-12-69	23.5	10				2.0	8.2	90		148					91
8-13-69	23.8	10				2.3	8.2	90		148					230
8-14-69	23.5	8				2.2	8.1	92		138					91
8-15-69	24.0	10				2.2	8.1	96		138					150
8-16-69	23.5	10				2.5	7.9	96		136					91
8-17-69	23.5	8				2.2	8.3	92		136					91
8-18-69	23.8	8				1.9	8.3	96		136					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-19-69	24.5	8				1.8	8.3	92		134					36
8-20-69						1.8	8.3	102		136					36
8-21-69	23.8	15				2.1	8.3	96		134					230
8-22-69	23.8	8				1.9	8.2	94		134					230
8-23-69	23.5	8				1.9	8.3	92		134					430
8-24-69	24.0	10				1.9	8.4	94		130					36
8-25-69	24.0	8				1.8	8.3	90		128					91
8-26-69	24.5	10				1.9	8.3	90		134					230
8-27-69	24.5	10				1.7	8.3	90		136					36
8-28-69	23.8	15				2.1	8.2	90		136					230
8-29-69	23.2	10				1.7	8.3	90		132					230
8-30-69	24.2	10				1.5	8.3	90		134					91
8-31-69	24.4	15				1.7	8.3	90		136					91
Aug. Avg.	23.8	11				2.1	8.2	92		137					153
Max.	24.5	30				2.5	8.4	102		156					430
Min.	23.0	4				1.5	7.8	86		128					0
9-1-69	24.5	8				1.7	8.3	90		140					0
9-2-69	24.5	10				1.7	8.3	90		132					230
9-3-69	23.0	8				2.6	7.8	94		136					36
9-4-69	23.8	20				4.2	7.1	110		144					91
9-5-69	17.2	20				4.8	7.2	110		142					150
9-6-69	21.5	30				2.9	7.7	96		136					36
9-7-69	22.8	20				2.1	8.0	90		138					91
9-8-69	22.8	10				2.0	8.1	90		136					73
9-9-69	22.6	35				1.9	8.2	96		132					150
9-10-69	21.8	70				1.9	8.0	92		156					430
9-11-69	21.5	45				2.0	7.9	90		154					230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
9-12-69	21.0	40				1.8	7.9	92		148					430
9-13-69	21.0	35				1.5	8.2	96		138					110
9-14-69	21.0	25				1.5	8.1	94		142					91
9-15-69	21.5	20				1.4	8.3	100		136					430
9-16-69	22.0	10				1.7	8.3	100		136					36
9-17-69	21.5	65				1.5	8.4	90		148					91
9-18-69	20.0	50				1.6	8.1	94		144					2,400
9-19-69	19.8	20				1.8	8.1	94		144					230
9-20-69	19.5	20				1.2	8.1	90		144					150
9-21-69	19.4	10				1.7	8.1	90		140					230
9-22-69	19.5	8				1.1	8.3	96		134					230
9-23-69	19.6	8				1.3	8.2	92		140					230
9-24-69	20.0	10				1.4	8.2	96		140					230
9-25-69	19.5	15				1.4	7.8	96		136					4,600
9-26-69	19.2	10				1.6	8.2	96		138					430
9-27-69	19.0	8				1.1	7.9	100		138					230
9-28-69	18.5	20				1.9	8.1	94		142					91
9-29-69	17.5	25				2.1	8.1	90		138					230
9-30-69	18.0	15				1.4	8.1	94		136					36
Sep. Avg.	20.8	23				1.9	8.0	95		140					401
Max.	24.5	65				4.8	8.4	110		156					4,600
Min.	17.2	8				1.1	7.1	90		132					0
10-1-69	17.5	20				1.4	8.3	96		140					230
10-2-69	18.0	20				1.5	8.3	92		142					0
10-3-69	18.5	30				2.0	8.3	100		148					91
10-4-69	18.5	25				1.5	8.0	26		144					150
10-5-69	18.2	20				1.2	8.3	96		140					91

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
10-6-69	17.5	20				1.1	8.3	96		146					230
10-7-69	17.5	10				1.5	8.3	96		144					91
10-8-69	17.8	20				1.3	8.1	96		146					36
10-9-69	17.0	50				1.9	8.0	100		154					91
10-10-69	17.5	25				1.4	8.0	102		148					91
10-11-69	17.5	20				1.4	8.2	94		146					230
10-12-69	17.5	25				1.7	8.0	92		156					0
10-13-69	17.6	20				1.2	8.2	98		142					91
10-14-69	17.6	95				2.0	8.1	94		160					36
10-15-69	16.6	100				2.0	8.0	90		174					430
10-16-69	16.8	20				1.8	8.2	92		160					230
10-17-69	16.0	120				3.3	8.0	94		142					430
10-18-69	15.0	140				3.6	7.9	90		152					2,400
10-19-69	14.5	160				3.5	7.9	90		158					11,000
10-20-69	14.2	150				2.7	7.9	90		140					4,600
10-21-69	15.0	110				2.2	7.9	96		140					230
10-22-69	14.0	90				2.1	7.8	92		152					930
10-23-69	13.0	120				2.0	7.9	90		140					1,500
10-24-69	12.6	60				1.6	7.9	90		144					430
10-25-69	13.0	40				1.2	7.9	90		144					150
10-26-69	12.8	30				0.9	7.8	90		146					430
10-27-69	12.5	120				1.5	7.8	92		146					430
10-28-69	12.0	85				1.4	7.8	88		140					2,400
10-29-69	12.0	40				1.4	7.9	90		140					430
10-30-69	11.2	40				1.2	8.0	88		140					430
10-31-69	11.5	35				0.7	8.1	92		138					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
Oct. Avg.	15.5	61				1.7	8.0	91		147					905
Max.	18.5	160				3.6	8.3	102		174					11,000
Min.	11.2	10				0.7	7.8	26		138					0
11-1-69	11.7	10				1.0	8.1	92		150					91
11-2-69	12.0	10				0.9	8.0	90		140					91
11-3-69	12.0	35				1.2	8.0	90		140					36
11-4-69	11.8	40				1.1	8.1	96		142					91
11-5-69	11.3	55				1.5	8.0	92		152					230
11-6-69	11.0	90				1.4	7.8	94		148					930
11-7-69	10.5	55				1.1	7.9	94		148.					230
11-8-69	10.5	65				1.2	7.9	96		150					210
11-9-69	10.8	50				1.2	8.0	96		144					230
11-10-69	10.8	40				1.2	7.9	98		146					430
11-11-69	10.8	20				1.1	7.9	94		148					230
11-12-69	11.0	55				1.2	8.1	94		140					230
11-13-69	10.5	75				1.4	7.9	96		144					230
11-14-69	10.0	60				1.7	8.0	96		152					430
11-15-69	9.0	80				2.8	7.9	92		156					930
11-16-69	8.0	140				3.1	7.9	92		144					2,400
11-17-69	7.8	55				2.7	8.0	90		138					4,600
11-18-69	8.0	45				1.7	7.9	88		136					930
11-19-69	8.8	20				1.6	7.9	90		128					430
11-20-69	7.8	180				2.0	7.9	88		136					4,600
11-21-69	7.0	110				2.1	7.8	84		144					11,000
11-22-69	6.5	95				2.1	7.8	97		134					46,000
11-23-69	6.3	120				2.0	7.8	86		130					24,000
11-24-69	6.3	120				2.0	7.6	86		150					24,000

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
11-25-69	7.0	60				2.9	7.8	84		132					4,300
11-26-69	6.5	85				1.9	7.9	88		130					15,000
11-27-69	6.5	40				1.8	7.9	86		132					2,300
11-28-69	6.5	90				1.8	7.8	88		130					2,300
11-29-69	6.5	55				2.0	7.9	86		136					2,000
11-30-69	6.4	75				1.9	7.8	90		142					4,300
Nov. Avg.	9.0	68				1.7	7.9	91		141					5,093
Max.	12.0	185				3.1	8.1	98		156					46,000
Min.	6.3	10				0.9	7.6	84		128					36
12-1-69	6.0	110				2.0	7.9	90		140					4,300
12-2-69	5.2	100				2.4	7.9	86		138					910
12-3-69	5.0	130				1.9	7.9	92		140					2,300
12-4-69	5.0	95				1.4	7.8	92		142					2,300
12-5-69	4.6	120				2.1	7.9	90		142					2,300
12-6-69	4.5	85				2.1	7.8	90		146					2,300
12-7-69	4.5	110				2.2	7.8	90		144					1,500
12-8-69	4.4	110				1.9	7.8	90		150					2,300
12-9-69	4.5	85				1.4	8.0	90		142					910
12-10-69	4.5	50				1.3	7.8	90		142					360
12-11-69	4.5	75				1.3	7.9	92		136					910
12-12-69	5.0	75				1.5	7.8	92		138					2,300
12-13-69	3.8	95				1.8	7.9	86		134					2,300
12-14-69	4.0	85				2.0	7.7	86		150					4,300
12-15-69	3.5	130				—	—	84		142					4,300
12-16-69	3.0	100				2.4	7.8	88		138					2,300
12-17-69	2.6	80				2.9	7.9	90		136					4,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
12-18-69	3.0	100				2.5	7.8	86		146					9,300
12-19-69	3.0	70				1.5	7.9	90		140					4,300
12-20-69	2.6	85				2.3	7.8	88		138					9,300
12-21-69	2.2	75				2.6	7.8	88		138					4,300
12-22-69	2.2	70				3.0	7.7	86		136					2,300
12-23-69	2.0	75				2.3	7.7	86		136					4,300
12-24-69	1.5	95				1.9	7.6	88		136					2,300
12-25-69	2.2	55				1.4	7.8	88		134					360
12-26-69	2.5	75				0.9	7.8	88		136					360
12-27-69	2.0	70				1.0	7.7	90		134					430
12-28-69	1.8	75				1.2	7.8	90		136					430
12-29-69	1.8	45				1.3	7.7	88		136					91
12-30-69	1.5	60				1.1	7.8	88		136					430
12-31-69	1.0	80				1.0	7.8	88		138					430
Dec. Avg.	3.4	86				1.8	7.8	89		139					2,543
Max.	6.0	135				3.0	8.0	92		150					9,300
Min.	1.0	45				0.9	7.6	84		134					91

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Data	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-69	1.1	160		13.8	98	0.7	7.8	90		134					2,700
1-2-69	1.1	120		13.8	98	0.7	7.8	91		132					5,000
1-3-69	1.1	110		14.0	99	0.8	7.9	89	269	130	15	27	0.33	0.0	5,200
1-4-69	1.1	65		13.8	98	0.8	7.9	86		126					2,295
1-5-69	1.1	40		13.4	95	0.6	7.9	92		134					2,010
1-6-69	1.1	10		13.6	96	0.6	7.9	93		136					600
1-7-69	0.6	35		13.8	96	0.6	7.9	92		138					2,640
1-8-69	0.6	20		13.6	95	0.5	7.9	92		140					635
1-9-69	0.6	20		13.2	93	0.5	7.9	92	246	146	19	31	0.08	0.0	10
1-10-69	0.6	10		13.8	96	0.5	7.9	91		138					8
1-11-69	0.6	10		13.8	96	0.5	7.9	93		134					103
1-12-69	0.6	10		13.0	90	0.5	7.9	93		138					26
1-13-69	0.6	8		13.2	93	0.4	7.9	91		140					2
1-14-69	0.6	5		13.2	93	0.4	7.9	92		144					3
1-15-69	0.6	4		13.8	96	0.4	7.9	93		146					1
1-16-69	0.6	4		13.4	94	0.4	7.9	91		144					1
1-17-69	0.6	3		13.0	90	0.3	7.9	90	218	146	17	32	0.03	0.0	1
1-18-69	0.6	9		13.6	95	0.4	7.9	94		136					1
1-19-69	0.6	6		13.4	94	0.4	7.9	95		138					2
1-20-69	0.6	5		12.8	89	0.4	7.9	90		146					1
1-21-69	0.6	6		13.2	93	0.4	7.9	92		136					3
1-22-69	0.6	20		13.0	90	0.4	7.9	93		134					6
1-23-69	0.6	20		13.4	94	0.4	7.9	94	212	138	15	26	0.06	0.0	8
1-24-69	1.1	20		13.4	95	0.4	7.9	93		138					4
1-25-69	1.1	35		13.6	96	0.5	7.9	95		136					98
1-26-69	0.6	25		12.8	89	0.4	7.9	94		142					91
1-27-69	0.6	15		12.8	89	0.4	7.9	93		140					40
1-28-69	0.6	10		13.0	90	0.4	7.9	91		140					82
1-29-69	1.1	10		13.0	93	0.4	7.9	92		142					32

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-30-69	0.6	9		12.8	89	0.4	7.9	92	228	138	16	28	0.10	0.0	51
1-31-69	0.6	10		12.8	89	0.3	7.9	93		140					46
Jan. Avg.	0.7	27		13.3	93	0.5	7.9	92	234	138	16	29	0.12	0.0	700
Max.	1.1	160		14.0	99	0.8	7.9	95	269	146	19	32	0.33	0.0	5,200
Min.	0.6	3		12.8	89	0.3	7.8	86	212	126	15	27	0.03	0.0	1
2-1-69	0.6	10		13.8	96	0.3	7.9	94		136					108
2-2-69	0.6	8		14.0	97	0.3	7.9	92		136					352
2-3-69	0.6	15		13.6	95	0.4	7.9	92		138					77
2-4-69	0.6	15		13.4	94	0.4	7.8	91		140					67
2-5-69	0.6	10		13.6	95	0.4	7.7	88		144					88
2-6-69	0.6	9		13.8	96	0.3	7.8	91	222	142	16	33	0.08	0.0	5
2-7-69	0.6	6		13.4	94	0.3	7.8	90		140					25
2-8-69	0.6	6		13.4	94	0.3	7.9	94		140					20
2-9-69	0.6	5		14.0	97	0.3	7.9	94		142					30
2-10-69	0.6	6		13.8	96	0.3	7.9	92		136					15
2-11-69	0.6	5		13.8	96	0.4	8.0	90	213	140	21	34	0.06	0.0	6
2-12-69	0.6	7		14.0	97	0.3	7.9	96		146					7
2-13-69	0.6	5		13.8	96	0.3	7.9	95		145					13
2-14-69	0.6	6		13.8	96	0.3	7.9	94		142					17
2-15-69	0.6	6		13.4	94	0.3	7.9	95		144					25
2-16-69	0.6	5		13.8	96	0.3	7.9	93		138					11
2-17-69	0.6	6		13.6	95	0.3	7.9	94		134					1
2-18-69	0.6	8		14.2	99	0.3	7.9	95		140					7
2-19-69	0.6	7		13.8	96	0.3	7.9	96	210	146	22	35	0.08	0.0	1
2-20-69	0.6	8		13.6	95	0.3	7.9	94		144					6
2-21-69	0.6	10		14.0	97	0.4	7.9	93		144					1
2-22-69	0.6	5		14.0	97	0.3	7.9	94		144					16

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula -03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-23-69	0.6	7		13.6	95	0.3	7.9	96		138					12
2-24-69	0.6	10		13.8	96	0.3	7.9	97		140					6
2-25-69	0.6	10		14.0	97	0.3	7.9	97		138					4
2-26-69	0.6	5		14.0	97	0.3	7.9	98	192	134	19	26	0.03	0.0	3
2-27-69	0.6	4		13.8	96	0.3	7.9	97		138					2
2-28-69	0.6	8		14.2	99	0.3	8.0	97		138					2
Feb. Avg.	0.6	8		13.8	96	0.3	7.9	94	209	140	20	32	0.06	0.0	33
Max.	0.6	15		14.2	99	0.4	8.0	98	222	146	22	35	0.08	0.0	352
Min.	0.6	4		13.4	94	0.3	7.7	88	192	104	16	26	0.03	0.0	1
3-1-69	0.6	6		14.2	99	0.3	8.1	95		138					4
3-2-69	0.6	6		14.4	100	0.4	8.0	95		138					6
3-3-69	1.1	6		14.0	99	0.4	8.0	94		132					23
3-4-69	1.1	4		14.2	100	0.4	8.0	94	189	132	17	26	0.02	0.0	48
3-5-69	1.1	5		14.2	100	0.4	8.1	93		136					12
3-6-69	1.1	4		14.4	101	0.4	8.1	93		134					6
3-7-69	1.1	4		14.0	99	0.4	8.7	93		134					4
3-8-69	1.1	3		14.4	101	0.4	8.2	95		132					0
3-9-69	0.6	3		14.4	100	0.4	8.1	96		132					12
3-10-69	0.6	3		14.2	99	0.4	8.3	96	188	130	18	22	0.02	0.0	7
3-11-69	0.6	4		14.4	100	0.4	8.2	95		134					20
3-12-69	0.6	2		14.8	102	0.4	8.3	93		130					34
3-13-69	0.6	3		14.6	101	0.4	8.2	93		132					34
3-14-69	0.6	2		14.8	102	0.4	8.3	94		132					30
3-15-69	0.6	3		14.8	102	0.4	8.3	93		132					69
3-16-69	0.6	3		14.8	102	0.4	8.2	93		132					58
3-17-69	0.6	3		14.8	102	0.4	8.1	93	193	132	17	25	0.06	0.0	48
3-18-69	0.6	3		14.8	102	0.5	8.2	95		138					36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-19-69	0.6	2		14.8	102	0.5	8.1	94		138					57
3-20-69	0.6	3		14.6	101	0.4	8.1	93		138					34
3-21-69	0.6	10		14.8	102	0.5	8.1	94		138					3
3-22-69	0.6	50		14.2	99	-	8.1	94		134					11
3-23-69	1.1	4		13.8	97	0.4	8.1	95		138					2
3-24-69	1.1	6		13.6	95	0.4	8.1	93	199	132	14	28	0.10	0.0	6
3-25-69	1.1	15		13.6	95	0.5	8.1	93		130					15
3-26-69	1.1	45		13.4	94	0.5	8.1	96		130					26
3-27-69	1.1	160		13.6	95	0.7	8.0	93		136					90
3-28-69	1.1	30		13.2	93	0.5	8.0	95	202	138					245
3-29-69	1.6	100		12.8	90	0.5	7.9	95		142					81
3-30-69	1.6	170		12.6	90	0.7	7.9	95		142					172
3-31-69	1.6	150		12.4	87	0.7	7.9	96	204	140	22	33	0.30	0.0	110
Mar. Avg.	0.9	25		14.1	96	0.5	8.1	94	196	135	18	27	0.10	0.0	42
Max.	1.6	170		14.8	102	0.7	8.7	96	204	142	22	33	0.30	0.0	245
Min.	0.6	2		12.4	87	0.3	7.9	93	188	130	14	22	0.02	0.0	0
4-1-69	1.6	75	238	12.4	87	0.6	7.9	96		138					240
4-2-69	1.6	40		12.2	86	0.5	7.9	93		142					380
4-3-69	2.2	25		12.0	87	0.5	7.9	94		140					305
4-4-69	2.2	25		12.4	89	0.5	7.9	93		138					40
4-5-69	3.3	20	247	13.0	96	0.5	7.9	94	203	136	20	22	0.03	0.0	40
4-6-69	3.9	50		12.8	96	0.4	7.9	94		136					410
4-7-69	3.9	25		12.6	95	0.4	7.9	98		138					84
4-8-69	4.4	30		12.2	94	0.5	7.9	96		136					87
4-9-69	4.4	30		12.0	91	0.5	7.9	94		134					84
4-10-69	5.5	20	233	12.2	95	0.5	7.9	95	191	144	24	25	0.13	0.0	48
4-11-69	5.5	20		12.4	98	0.4	7.9	94		140					28

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-12-69	7.2	20		12.4	102	0.4	7.9	94		136					8
4-13-69	7.2	8		13.8	113	0.4	7.9	94		128					4
4-14-69	5.0	15		13.4	104	0.4	7.9	96		134					4
4-15-69	5.0	15		13.4	104	0.4	7.9	93		138					20
4-16-69	5.0	15		13.2	102	0.4	7.9	92		134					18
4-17-69	6.6	10		13.2	106	0.4	7.9	94		134					22
4-18-69	7.2	8	201	13.2	108	0.4	7.9	95	162	136	20	28	0.18	0.0	5
4-19-69	7.2	85		12.6	104	0.5	7.9	90		132					30
4-20-69	6.6	120		12.8	103	0.5	7.9	92		128					136
4-21-69	6.6	150		13.0	105	0.5	7.9	94		132					132
4-22-69	6.6	140		12.0	96	0.5	7.9	95		136					58
4-23-69	6.6	110		11.8	95	0.5	7.9	93		134					71
4-24-69	6.6	120		11.6	94	0.5	7.9	93		136					351
4-25-69	6.6	100		11.4	92	0.5	7.9	93		136					73
4-26-69	8.8	40	196	11.2	95	0.5	7.9	90	188	138	19	30	0.16	0.0	56
4-27-69	7.7	30		11.4	94	0.5	7.9	90		136					40
4-28-69	7.8	30		11.4	95	0.5	7.9	90		136					58
4-29-69	8.9	20		11.0	95	0.5	7.9	93		138					77
4-30-69	8.9	20		11.2	96	0.5	7.9	95		130					8
Apr. Avg.	5.7	47	223	12.3	97	0.5	7.9	94	186	136	21	26	0.13	0.0	97
Max.	8.9	150	247	13.8	113	0.6	7.9	98	203	144	24	30	0.18	0.0	410
Min.	1.6	8	196	11.0	86	0.4	7.9	90	162	128	19	22	0.03	0.0	4
5-1-69	10.0	15		11.0	97	0.5	7.9	93		132					42
5-2-69	10.0	10		11.0	97	0.4	7.9	90		136					4
5-3-69	10.0	8		11.4	100	0.4	7.9	90		134					6
5-4-69	10.0	8		11.4	100	0.5	7.9	92		136					7
5-5-69	10.0	10		11.0	97	0.5	7.9	94		138					18

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-6-69	8.9	15	212	11.2	96	0.5	7.9	95	174	140	17	32	0.06	0.0	50
5-7-69	8.9	10		11.0	95	0.5	8.0	94		136					11
5-8-69	8.9	9		11.0	95	0.5	8.0	93		136					18
5-9-69	8.9	15		10.6	90	0.5	7.9	95		136					11
5-10-69	8.9	90		10.8	92	0.5	7.9	95		134					46
5-11-69	10.0	60		10.6	94	0.6	7.9	92		134					184
5-12-69	10.0	50		10.6	94	0.6	7.9	94		136					264
5-13-69	10.0	20	225	10.4	91	0.6	7.9	94	184	134	20	26	0.60	0.0	88
5-14-69	11.1	20		10.4	95	0.5	7.9	93		134					46
5-15-69	11.1	20		10.0	90	0.5	7.9	90		134					96
5-16-69	11.1	15		10.2	92	0.5	7.9	90		132					102
5-17-69	11.1	10		10.4	95	0.6	7.9	89		130					120
5-18-69	11.1	8		10.4	95	0.6	7.9	88		130					92
5-19-69	12.2	7		10.6	98	0.6	7.9	89		132					46
5-20-69	12.2	20	237	10.2	95	0.6	7.9	87	195	134	17	30	0.04	0.0	392
5-21-69	12.2	25		10.0	94	0.6	7.9	88		130					700
5-22-69	12.2	30		10.0	94	0.6	8.0	88		132					400
5-23-69	12.2	30		10.2	95	0.6	8.0	90		132					32
5-24-69	12.2	25		10.2	95	0.6	8.0	88		134					21
5-25-69	12.2	15		10.0	94	0.7	7.9	89		134					15
5-26-69	12.2	10		10.0	94	0.7	7.8	87		132					16
5-27-69	12.2	5	221	9.8	91	0.7	7.8	88	181	132	14	27	0.10	0.0	8
5-28-69	10.0	6		9.8	85	0.7	7.9	89		130					17
5-29-69	12.2	15		9.6	90	0.7	7.9	90		134					62
5-30-69	13.3	10		9.8	94	0.8	7.9	90		134					18
5-31-69	14.4	8		9.8	95	0.8	7.9	90		132					11
May Avg.	11.0	19	224	10.4	94	0.6	7.9	91	184	134	17	29	0.20	0.0	95
Max.	14.4	90	237	11.4	100	0.8	8.0	95	195	140	20	32	0.60	0.0	700
Min.	8.9	5	212	9.6	85	0.4	7.8	87	174	130	14	26	0.04	0.0	4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-1-69	14.4	6		9.0	87	0.8	8.1	91		134					8
6-2-69	13.9	5		9.0	86	0.8	8.2	95		142					12
6-3-69	13.9	30	229	8.8	85	0.8	8.1	93	188	142	16	30	0.60	0.0	6
6-4-69	13.9	40		8.4	80	0.8	7.9	88		136					48
6-5-69	15.0	20		8.0	78	0.8	7.9	89		128					72
6-6-69	15.6	15		7.8	77	0.8	8.0	90		138					24
6-7-69	15.6	10		8.0	80	0.8	7.9	88		138					32
6-8-69	15.5	8		7.6	76	0.8	7.9	89		138					48
6-9-69	15.6	10		7.6	75	0.8	7.9	89		138					39
6-10-69	15.6	8		7.8	77	0.8	7.9	89		136					19
6-11-69	14.4	8	233	8.0	77	0.9	8.1	91	191	130	16	26	0.08	0.0	18
6-12-69	14.4	6		8.0	77	0.9	8.0	90		132					19
6-13-69	16.2	10		7.8	79	0.8	8.0	91		134					17
6-14-69	16.2	20		7.8	79	0.9	7.9	91		132					6
6-15-69	15.0	20		8.0	79	0.8	7.9	90		128					16
6-16-69	15.0	20		8.0	79	0.8	7.8	92		130					22
6-17-69	15.6	20		8.0	80	0.8	7.9	90		128					13
6-18-69	15.6	20	233	7.8	77	0.8	8.0	90	191	132	17	25	0.06	0.0	22
6-19-69	16.2	20		7.8	79	0.8	7.9	91		132					16
6-20-69	16.7	15		8.0	81	0.8	7.9	89		130					21
6-21-69	16.2	15		8.0	80	0.8	7.9	89		138					11
6-22-69	16.2	10		8.4	85	0.8	7.9	79		128					36
6-23-69	14.4	10		8.2	80	0.8	7.8	88		126					36
6-24-69	16.2	20		8.0	80	0.7	7.9	90		128					31
6-25-69	16.2	20	254	7.8	79	0.8	8.0	91	209	130	18	24	0.04	0.0	32
6-26-69	16.2	20		8.0	80	0.8	7.9	92		128					4
6-27-69	16.7	20		8.8	90	0.7	7.9	91		132					45
6-28-69	17.2	8		8.8	91	0.7	7.9	91		130					89
6-29-69	18.9	8		9.0	96	0.6	7.9	91		128					80
6-30-69	18.9	20		8.6	92	0.7	7.9	92		132					33

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
June Avg.	15.8	15	237	8.2	81	0.8	8.0	90	195	133	17	26	0.20	0.0	29
Max.	18.9	40	254	9.0	96	0.9	8.2	95	209	142	18	30	0.60	0.0	89
Min.	13.9	5	229	7.6	75	0.6	7.8	79	188	126	16	24	0.04	0.0	4
7-1-69	19.4	7		8.4	90	0.7	7.9	90		130					82
7-2-69	19.4			8.4	90	0.7	7.9	90		130					28
7-3-69	20.0	6	244	8.2	89	0.7	7.9	92	200	132	14	22	0.04	0.0	20
8-4-69	20.0	6		8.0	87	0.8	7.9	90		128					490
7-5-69	20.0	50		8.0	87	0.8	7.9	91		130					20
7-6-69	20.0	10		8.0	87	0.6	7.9	91		130					10
7-7-69	20.0	7		7.8	85	0.6	7.9	93		132					20
7-8-69	13.3	6		7.6	73	0.6	7.9	92		134					12
7-9-69	13.3	5		7.6	73	0.6	7.9	89		132					32
7-10-69	14.4	6	265	7.2	70	0.6	7.9	90	218	130	16	28	0.10	0.0	72
7-11-69	14.4	7		7.2	70	0.6	7.9	90		130					47
7-12-69	18.9	15		7.0	75	0.6	7.9	92		130					32
7-13-69	18.9	7		7.0	75	0.7	8.0	95		130					180
7-14-69	20.0	4		6.8	74	0.6	8.1	94		128					78
7-15-69	20.0	8		6.8	74	0.6	8.1	95		132					20
7-16-69	20.0	7		6.6	72	0.6	8.1	96		134					65
7-17-69	21.1	8	254	6.4	71	0.6	8.1	94	209	132	17	23	0.04	0.0	45
7-18-69	22.2	6		6.4	72	0.6	8.1	94		134					38
7-19-69	22.2	5		6.2	70	0.7	8.1	92		130					12
7-20-69	16.7	6		5.4	55	0.6	7.9	92		134					45
7-21-69	17.2	3	276			0.7	8.1	95	226	142	20	25	0.03	0.0	110
7-22-69	17.2	8		5.6	58	0.6	8.1	94		138					920
7-23-69	14.4	10		7.0	68	0.6	8.1	96		136					45
7-24-69	15.0	4		6.2	61	0.6	8.1	93		138					105
7-25-69	15.0	4		8.8	87	0.6	8.1	93		138					300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-26-69	21.6	4		9.2	103	0.7	8.1	94		130					55
7-27-69	21.6	4		9.2	103	0.7	8.2	92		134					52
7-28-69	22.2	3	265	8.4	95	0.6	8.1	93	218	128	16	24	0.01	0.0	20
7-29-69	22.2	10		7.4	84	0.6	8.1	95		138					30
7-30-69	23.3	7		7.2	83	0.6	8.1	94		140					70
7-31-69	23.3	5		7.4	85	0.6	8.1	92	92	136					29
July Avg.	18.9	8	261	7.2	79	0.6	8.0	94	211	133	17	24	0.04	0.0	99
Max.	23.3	50	276	9.2	103	0.8	8.2	96	226	142	20	28	0.10	0.0	920
Min.	13.3	3	244	5.4	55	0.6	7.9	91	176	128	14	22	0.01	0.0	10
8-1-69	24.4	5		7.2	85	0.6	8.1	94		134					60
8-2-69	24.4	4		7.2	85	0.7	7.9	93		130					60
8-3-69	24.4	3		7.0	82	0.7	7.9	92		128					20
8-4-69	23.3	5		7.2	83	0.6	8.0	94		132					100
8-5-69	24.4	8		7.4	87	0.6	8.0	93		136					100
8-6-69	24.4	10		7.2	85	0.6	8.0	94		138					40
8-7-69	24.4	20	265	7.4	87	0.6	8.0	96	217	136	17	30	0.06	0.0	10
8-8-69	24.4	25		7.2	85	0.6	8.0	94		136					40
8-9-69	24.4	10		7.0	82	0.6	8.1	95		134					53
8-10-69	23.3	10		7.4	85	0.7	8.1	92		130					50
8-11-69	23.3	9		7.4	85	0.6	8.2	95		132					100
8-12-69	23.9	8		7.6	89	0.6	8.2	94		128					60
8-13-69	23.9	8		7.4	86	0.6	8.2	94		128					30
8-14-69	23.9	10		7.6	89	0.6	8.3	94	176	126	14	24	0.03	0.0	30
8-15-69	23.9	10		7.6	89	0.6	8.3	93		130					40
8-16-69	23.9	15		7.8	91	0.6	8.3	95		130					40
8-17-69	23.9	10		7.8	91	0.7	8.3	91		134					90
8-18-69	23.9	8		7.8	91	0.7	8.3	93		134					100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-19-69	23.9	4		8.0	93	0.7	8.3	92		130					60
8-20-69	23.9	6		7.8	91	0.7	8.3	93		130					100
8-21-69	23.9	3	265	8.0	93	0.7	8.3	92	217	132	16	28	0.03	0.0	90
8-22-69	23.9	4		7.6	89	0.7	8.3	92		134					30
8-23-69	23.9	8		7.8	91	0.7	8.3	93		130					30
8-24-69	23.9	1		8.0	93	0.7	8.4	92		130					40
8-25-69	23.9	7		7.8	91	0.7	8.4	91		132					10
8-26-69	23.9	5		8.0	93	0.7	8.4	90		132					20
8-27-69	23.9	4		8.0	93	0.7	8.5	91		134					20
8-28-69	23.9	4		7.8	91	0.7	8.5	92		130					30
8-29-69	23.9	3	276	7.6	89	0.7	8.5	93	226	128	15	27	0.02	0.0	10
8-30-69	23.9	5		8.6	100	0.8	8.5	91		126					20
8-31-69	23.9	6		8.6	100	0.8	8.5	89		126					10
Aug. Avg.	24.0	8	269	7.6	89	0.7	8.2	92	209	131	16	27	0.04	0.0	48
Max.	24.4	25	276	8.6	100	0.8	8.5	96	226	138	17	30	0.06	0.0	100
Min.	23.3	1	265	7.0	82	0.6	7.9	89	176	126	14	24	0.02	0.0	10
9-1-69	23.9	4		8.0	93	0.7	8.5	88		130					30
9-2-69	24.4	4		8.0	94										20
9-3-69	24.4	5		7.6	89	0.9	8.5	90		134					55
9-4-69	22.2	6		7.8	88	0.8	8.5	92		134					10
9-5-69	19.4	7	254	8.0	86	0.8	8.4	91	209	136	20	28	0.30	0.0	30
9-6-69	21.1	4		7.6	84	0.8	8.4	92		136					30
9-7-69	23.3	10		7.8	90	0.9	8.4	92		134					60
9-8-69	24.4	20		7.8	92	0.8	8.4	93		136					20
9-9-69	24.4	20		8.0	94	0.9	8.3	91		140					80
9-10-69	22.8	50		8.0	92	0.8	8.1	88		140					60
9-11-69	21.7	40		7.6	85	0.8	8.2	89		138					70

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-12-69	21.1	60	244	8.0	89	0.8	8.2	91	200	138	18	30	0.06	0.0	130
9-13-69	21.1	55		8.2	91	0.8	8.1	90		136					65
9-14-69	21.7	20		8.2	92	0.9	8.1	89		128					30
9-15-69	21.7	10		8.2	92	0.9	8.1	91		136					40
9-16-69	21.7	15		8.4	94	0.8	8.1	92		136					40
9-17-69	21.7	15		8.4	94	0.8	8.1	90		134					80
9-18-69	21.7	10		8.6	97	0.8	8.1	90		138					140
9-19-69	21.1	10	233	8.2	91	0.8	8.1	91	191	134	19	27	0.08	0.0	80
9-20-69	21.1	5		8.0	89	0.8	7.9	96		134					60
9-21-69	21.1	3		8.0	89	0.8	8.1	94		134					100
9-22-69	21.1	10		8.2	91	0.7	8.2	96		138					60
9-23-69	21.1	7		8.0	89	0.7	8.2	100		142					25
9-24-69	20.0	15		9.0	98	0.8	8.2	96		136					80
9-25-69	20.0	10		8.2	89	0.8	8.2	98		150					50
9-26-69	20.0	15	276	8.2	89	0.8	8.2	99	226	140	13	34	0.03	0.0	90
9-27-69	19.4	6		8.6	93	0.8	8.3	99		132					90
9-28-69	17.7	20		8.4	88	0.9	8.1	95		136					20
9-29-69	18.3	20		8.6	91	0.9	8.1	98		140					53
9-30-69	18.3	20		9.0	95	1.0	8.1	99		140					55
Sept. Avg.	21.4	16	252	8.1	90	0.8	8.2	93	207	137	17	29	0.11	0.0	58
Max.	24.4	60	276	9.0	97	1.0	8.5	100	226	150	20	34	0.30	0.0	140
Min.	17.7	3	233	7.6	84	0.7	7.9	88	191	128	13	27	0.03	0.0	5
10-1-69	17.8	15		8.8	92	0.6	8.1	98		142					30
10-2-69	18.2	15		8.6	91	0.9	8.1	97		140					107
10-3-69	18.2	10		8.6	91	0.9	8.1	98		138					45
10-4-69	18.2	4	254	8.4	88	0.9	8.1	99	209	142	17	29	0.20	0.0	10
10-5-69	17.8	4		8.8	92	0.9	8.1	99		130					60

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-6-69	18.2	6		8.8	93	0.9	8.1	100		132					55
10-7-69	18.2	6		9.0	95	1.0	8.1	99		134					30
10-8-69	18.2	15		9.0	95	1.1	8.1	98		130					180
10-9-69	18.2	7		9.2	97	1.0	8.1	98		128					90
10-10-69	18.2	6		9.0	95	1.0	8.1	96		128					80
10-11-69	17.8	5		9.0	94	1.1	8.1	98		128					60
10-12-69	18.9	5		8.6	92	1.4	8.1	96		134					20
10-13-69	17.8	15	265	9.0	94	1.0	8.0	98	218	134	15	24	0.02	0.0	80
10-14-69	17.8	30		8.6	90	1.1	8.1	100		132					180
10-15-69	17.2	30		9.2	95	1.1	8.1	98		136					1,915
10-16-69	17.2	15		9.2	95	1.3	8.2	94		138					437
10-17-69	16.1	290		8.0	81	1.0	8.2	94		136					7,900
10-18-69	16.1	325		8.0	81	1.5	8.2	100		140					5,600
10-19-69	16.1	240		8.4	85	1.6	8.1	95		140					3,300
10-20-69	16.1	60	276	9.2	93	1.4	8.1	96	226	154	15	40	0.03	0.0	2,200
10-21-69	14.4	95		9.4	92	1.3	8.0	97		148					3,800
10-22-69	14.4	120		9.0	88	1.3	7.9	96		146					2,150
10-23-69	13.9	130		9.6	93	1.3	7.9	98		146					2,750
10-24-69	12.7	8		9.4	89	1.3	7.9	96		144					590
10-25-69	12.7	40		9.2	87	1.5	7.9	95		140					500
10-26-69	12.7	45		10.0	94	1.4	7.9	95		136					1,475
10-27-69	12.7	170		9.8	93	1.2	7.9	96		146					880
10-28-69	11.7	120	244	10.2	94	1.2	7.9	99	200	154	14	26	0.02	0.0	10,200
10-29-69	11.7	50		10.2	94	1.0	8.0	99		156					480
10-30-69	11.7	20		10.0	92	0.9	8.1	100		152					240
10-31-69	11.7	15		10.2	94	1.0	8.1	102		156					110
Oct, Avg.	15.9	61	260	9.1	91	1.1	8.0	98	213	140	15	29	0.06	0.0	1,469
Max.	18.9	325	276	10.2	97	1.6	8.2	102	226	156	17	40	0.20	0.0	10,200
Min.	11.7	4	244	8.0	81	0.6	7.9	94	200	128	14	24	0.02	0.0	10

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-1-69	11.7	20		10.2	94	1.2	8.1	96		134					335
11-2-69	11.7	20				1.2	8.1	99		146					160
11-3-69	11.7	20		10.4	96	1.0	8.1	97		140					170
11-4-69	11.7	30		10.4	96	0.9	8.1	96		140					90
11-5-69	10.6	50		10.8	98	<1.0	8.1	98		144					530
11-6-69	10.0	130	254	11.0	98	1.0	8.1	98	209	144	12	31	0.06	0.0	3,800
11-7-69	10.6	90		10.8	98	1.0	8.0	96		140					517
11-8-69	11.1	55		10.6	97	1.1	8.1	94		134					1,500
11-9-69	10.6	45		10.8	98	1.1	8.0	95		136					370
11-10-69	10.6	70	276	10.8	98	1.0	8.1	96	226	144	18	30	0.10	0.0	530
11-11-69	10.6	90		10.6	96	1.0	8.1	98		144					470
11-12-69	10.6	120		10.2	92	1.0	8.1	96		140					497
11-13-69	10.0	150		10.6	94	1.0	8.0	97		142					1,825
11-14-69	9.4	75		10.4	91	1.1	8.0	96		140					1,165
11-15-69	8.8	70		10.6	91	1.4	8.1	96		140					520
11-16-69	7.7	90		10.4	87		8.1	96		136					900
11-17-69	7.2	110		10.4	86	0.9	8.1	99		150					255
11-18-69	7.2	80		10.6	88	1.0	8.1	96		148					155
11-19-69	7.2	150	237	10.8	89	1.0	8.1	97	195	154	12	40	0.10	0.0	1,055
11-20-69	7.2	150		10.8	89	1.0	8.1	97		154					1,600
11-21-69	7.2	240		11.0	91	1.0	8.0	96		148					7,000
11-22-69	5.6	95		11.6	92	1.0	7.1	92		136					4,025
11-23-69	5.6	200		11.0	88	1.2	7.1	90		126					2,350
11-24-69	5.6	110		11.2	90	1.0	7.9	94		136					380
11-25-69	5.6	85		11.4	91	1.2	8.0	93		134					240
11-26-69	5.0	55		11.0	86	1.2	7.9	92		130					16,400
11-27-69	5.6	140	244	11.2	89	1.3	7.9	90	200	126	14	22	0.06	0.0	2,000
11-28-69	5.6	45		11.2	89	1.0	7.9	93		126					534
11-29-69	6.1	90		11.4	92	1.0	8.0	94		126					3,250
11-30-69	5.6	180		10.6	84										600

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
Nov. Avg.	8.5	95	253	10.8	92	1.1	8.0	95	208	139	14	30	0.08	0.0	1,773
Max.	11.7	240	276	11.6	98	1.4	8.1	99	226	154	18	40	0.10	0.0	16,400
Min.	5.0	20	237	10.2	84	0.9	7.1	90	195	126	12	22	0.06	0.0	90
12-1-69	5.0	160	297	10.8	85	1.0	7.9	91	244	148	19	29	0.08	0.0	2,225
12-2-69	4.4	130		10.8	83	1.0	7.9	93		140					900
12-3-69	4.4	95		11.6	90	1.2	7.9	98		136					1,350
12-4-69	3.9	110		11.6	89	1.0	7.9	97		130					2,575
12-5-69	2.8	95		11.3	88	1.0	7.9	96		130					3,353
12-6-69	2.8	75		12.0	89	1.0	7.9	96		132					600
12-7-69	4.4	40		11.8	91	1.2	7.9	96		132					567
12-8-69	4.4	25		11.6	90	0.9	7.9	98		146					1,525
12-9-69	4.4	25	265	11.6	90	1.1	8.0	98	218	140	19	27	0.10	0.0	760
12-10-69	4.4	50		11.8	91	0.8	8.0	97		138					280
12-11-69	4.4	50		11.8	91	0.8	8.0	96		136					337
12-12-69	3.9	30		12.0	92	0.9	8.0	97		136					440
12-13-69	2.7	190		12.2	91	0.9	8.0	96		134					2,600
12-14-69	2.8	10		12.0	89		7.9	95		132					473
12-15-69	3.3	75		12.2	92	0.9	8.0	96		138					200
12-16-69	3.3	120		12.0	90	1.0	8.0	97		136					165
12-17-69	3.3	110	244	11.8	89	0.8	8.0	94	200	140	17	24	0.04	0.0	345
12-18-69	2.2	70		12.2	89	0.9	8.0	95		144					420
12-19-69	1.7	160		12.2	88	0.9	8.0	96		144					840
12-20-69	1.1	140		12.2	86	0.9	8.0	96		134					620
12-21-69	1.1	90		12.6	89	0.8	7.9	94		132					875
12-22-69	2.2	95		12.8	93	0.8	8.0	96		138					700
12-23-69	1.7	60		12.8	92	0.9	8.0	96		138					247
12-24-69	1.7	25		13.0	94	0.8	8.0	94		136					150
12-25-69	1.7	25		13.0	94	0.7	8.0	96		136					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - 03303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-26-69	1.7	20	233	13.0	94	0.8	8.0	94	191	136	15	28	0.06	0.0	120
12-27-69	1.7	45		13.2	95	0.8	7.9	94		132					115
12-28-69	1.1	45		13.4	95	0.9	7.9	94		134					500
12-29-69	1.1	40		13.2	93	0.8	7.9	96		134					57
12-30-69	1.1	40		13.2	93	0.8	7.9	96		136					53
12-31-69	1.1	40		13.0	92	0.9	7.9	94		138					770
Dec. Avg.	2.8	73	260	12.2	90	0.9	7.9	96	213	137	18	27	0.07	0.0	784
Max.	5.0	190	297	13.4	95	1.2	8.0	98	244	148	19	29	0.10	0.0	3.353
Min.	1.1	10	233	10.8	83	0.7	7.9	91	191	130	15	24	0.04	0.0	53

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-69	0.5	60	270	14.5	100	1.0	7.6	93		130					2,400
1-2-69	0.5	40	220	14.5	100	0.7	7.6	95		130					2,400
1-3-69	0.5	40	280	14.0	97	0.8	7.6	94		130	10	49	.058	.028	2,400
1-4-69	0.5	20	240	14.7	102	0.6	7.6	86		130					2,400
1-5-69	0.5	10	280	13.6	95	0.7	7.6	88		130					2,400
1-6-69	0.5	10	250	14.2	98	0.9	7.6	86		130					2,400
1-7-69	0.5	30	250	13.8	96	0.7	7.6	90		130					2,400
1-8-69	0.5	10	240	13.9	97	0.8	7.7	92		130					2,400
1-9-69	0.5	10	240	13.9	97	0.6	7.7	93		130					2,400
1-10-69	0.5	10	250	13.4	93	0.9	7.6	95		130	20	30	.029		2,400
1-11-69	0.5	6	260	13.4	93	0.6	7.6	94		130					460
1-12-69	0.5	4	240	13.4	93	0.5	7.4	93		130					2,400
1-13-69	0.5	4	260	14.0	97	0.7	7.4	92		130					2,400
1-14-69	0.5	4	240	14.0	97	0.6	7.4	92		130					2,400
1-15-69	0.5	4	260	13.6	95	0.8	7.4	95		130					1,100
1-16-69	0.5	4	260	13.6	95	0.7	7.4	95		130					1,100
1-17-69	0.5	4	260	13.6	95	0.7	7.4	95		130	19	34	.010	.040	240
1-18-69	0.5	4	280	14.1	98	0.7	7.4	92		130					460
1-19-69	0.5	4	270	13.5	94	0.3	7.4	85		130					2,400
1-20-69	0.5	4	290	14.0	97	0.8	7.5	92		130					2,400
1-21-69	0.5	4	270	14.2	98	0.5	7.5	92		130					1,100
1-22-69	0.5	7	300	14.4	100	0.5	7.6	88		128					1,100
1-23-69	0.5	6	250	14.3	99	0.8	7.6	87		128					2,400
1-24-69	1.1	30	260	13.2	93	0.5	7.5	95		128	20	38	.055	.080	240
1-25-69	0.5	30	270	13.8	96	0.8	7.6	95		128					240
1-26-69	0.5	5	240	14.4	100	0.8	7.5	95		128					150
1-27-69	0.5	10	270	14.0	97	0.8	7.5	92		128					240
1-28-69	0.5	5	240	14.4	100	0.6	7.6	94		128					460
1-29-69	0.5	10	280	12.5	87	0.8	7.6	95		128					1,100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-30-69	0.5	8	250	12.6	87	0.6	7.6	95		128					1,100
1-31-69	0.5	6	270	14.0	97	0.5	7.6	94		128	25	45	.012	.090	-
Jan. Avg.	0.5	13	259	13.9	96	0.7	7.5	92		129	19	39	.033	.060	1,580
Max.	1.1	60	300	14.7	102	1.0	7.7	95		130	25	49	.058	.090	2,400
Min.	0.5	4	220	12.5	87	0.3	7.4	85		128	10	30	.010	.028	150
2-1-69	0.5	6	290	13.7	95	0.8	7.7	93		128					1,100
2-2-69	0.5	4	250	13.4	93	1.0	7.6	90		128					93
2-3-69	0.5	15	220	14.8	103	0.5	7.6	90		128					460
2-4-69	0.5	6	250	14.0	97	1.0	7.6	92		128					1,100
2-5-69	0.5	6	230	13.6	95	0.6	7.6	88		128					2,400
2-6-69	0.5	6	230	13.8	96	0.8	7.6	88		128					2,400
2-7-69	0.5	4	240	13.5	94	0.8	7.6	86		130	29		.020	.025	2,400
2-8-69	0.5	4	300	13.4	93	0.6	7.6	88		130					460
2-9-69	0.5	4	310	14.4	100	1.2	7.6	95		130					460
2-10-69	0.5	5	290	14.8	103	0.9	7.6	92		130					2,400
2-11-69	0.5	4	210	14.1	98	0.8	7.6	86		130					2,400
2-12-69	0.5	4	240	14.4	100	0.7	7.6	88		130					2,400
2-13-69	0.5	5	230	14.4	100	0.9	7.6	90		130					2,400
2-14-69	0.5	6	250	14.8	103	0.9	7.6	87		130		35	.010	.022	2,400
2-15-69	0.5	6	240	14.6	102	0.9	7.6	87		130					2,400
2-16-69	0.5	4	240	14.0	97	0.8	7.6	86		130					1,100
2-17-69	0.5	5	300	14.5	100	0.9	7.6	90		130					1,100
2-18-69	0.5	5	240	14.2	98	0.9	7.6	90		130					1,100
2-19-69	0.5	6	220	14.4	100	0.7	7.6	92		130					240
2-20-69	0.5	6	210	14.4	100	0.6	7.6	90		130					240
2-21-69	0.5	4	240	14.4	100	0.8	7.6	86		130	18	30	.020	.005	1,100
2-22-69	0.5	4	240	14.3	99	0.8	7.6	93		130					90

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-23-69	0.5	4	260	14.2	98	1.7	7.6	92		130					90
2-24-69	0.5	4	250	14.0	97	0.8	7.6	95		130					90
2-25-69	0.5	4	250	14.8	103	0.9	7.6	90		130					2,400
2-26-69	0.5	4	220	14.7	103	0.8	7.6	95		130					2,400
2-27-69	0.5	4	230	14.8	103	0.8	7.6	93		130					460
2-28-69	0.5	4	230	14.0	97	0.9	7.6	90		132	23	32	.060	.025	20
Feb. Avg.	0.5	5	247	14.2	99	0.8	7.6	90		130	23	32	.028	.019	1,280
Max.	0.5	15	310	14.8	103	1.7	7.7	95		132	29	35	.060	.025	2,400
Min.	0.5	4	210	13.4	93	0.5	7.6	86		128	18	30	.010	.005	20
3-1-69	0.5	4	290	14.2	98	0.8	7.6	92		132					20
3-2-69	0.5	4	300	14.9	103	1.3	7.6	95		132					9
3-3-69	0.5	4	300	14.8	103	1.0	7.6	90		132					3
3-4-69	0.5	4	290	15.2	105	0.8	7.6	92		132					3
3-5-69	0.5	3	230	15.4	106	0.7	7.7	95		132					20
3-6-69	0.5	3	210	15.5	107	0.8	7.6	95		132					40
3-7-69	0.5	3	260	14.4	100	0.8	7.6	90		128	28	32	.012	.090	20
3-8-69	0.5	3	270	15.0	103	0.9	7.6	92		128					4,600
3-9-69	0.5	3	240	15.3	106	1.0	7.6	90		128					40
3-10-69	0.5	3	250	15.2	105	0.9	7.6	95		128					2,400
3-11-69	0.5	3	260	15.7	108	1.0	7.6	88		128					2,400
3-12-69	0.5	3	210	15.6	108	1.5	7.6	92		128					1,100
3-13-69	0.5	3	220	15.7	108	0.9	7.6	90		128					2,400
3-14-69	0.5	3	230	15.7	108	0.9	7.6	90		130	23	32	.012	.050	1,100
3-15-69	0.5	3	250	15.9	110	1.0	7.6	90		130					1,100
3-16-69	0.5	3	250	15.5	107	-	7.6	90		130					1,100
3-17-69	0.5	3	250	15.9	110	1.0	7.6	92		130					240
3-18-69	0.5	3	260	16.8	117	0.7	7.6	92		130					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
3-19-69	0.5	3	240	17.5	120	0.9	7.5	94		130					2,400
3-20-69	0.5	3	210	17.5	120	-	7.6	92		130					210
3-21-69	2.7	6	240	15.8	115	-	7.6	95		128	21	35	.016	.025	40
3-22-69	1.6	6	260	14.6	104	-	7.6	95		128					40
3-23-69	2.2	6	260	15.5	111	-	7.6	93		128					20
3-24-69	2.2	6	250	15.0	108	0.7	7.6	93		128					2,400
3-25-69	2.2	4	200	15.5	111	0.8	7.6	98		128					40
3-26-69	2.2	30	220	15.3	110	0.8	7.6	95		128					460
3-27-69	2.2	20	260	15.3	110	0.8	7.6	98		128					460
3-28-69	2.2	20	280	14.8	107	0.8	7.6	90		128	20	40	.026	--	210
3-29-69	2.2	30	210	15.2	110	0.8	7.6	90		128					460
3-30-69	2.2	40	230	15.1	109	1.0	7.6	90		128					460
3-31-69	2.2	50	230	15.2	110	1.0	7.6	92		128					290
Mar. Avg.	1.1	9	247	15.5	108	0.9	7.6	92		129	23	35	.017	.055	785
Max.	2.2	50	300	17.5	120	1.3	7.7	98		132	28	40	.026	.090	4,600
Min.	0.5	3	210	14.2	98	0.7	7.5	88		128	20	32	.012	.025	3
4-1-69	2.2	50	230	15.1	109	1.0	7.6	92		128					290
4-2-69	2.7	40	320	14.8	108	0.8	7.4	97		128					460
4-3-69	3.3	15	240	15.2	113	0.8	7.4	98		128					460
4-4-69	3.3	40	230	15.2	113	1.0	7.5	94		128	28	32	.020	.038	2,400
4-5-69	3.3	45	240	15.0	111	1.0	7.6	92		128					240
4-6-69	4.4	20	260	13.6	104	0.9	7.6	89		128					150
4-7-69	4.4	20	260	14.0	107	0.8	7.6	94		128					150
4-8-69	5.5	20	280	14.6	115	0.7	7.6	95		128					40
4-9-69	5.5	20	240	13.5	106	0.9	7.6	90		128					2,400
4-10-69	6.6	30	250	13.5	108	0.7	7.6	95		128					460
4-11-69	7.7	30	260	10.5	87	0.7	7.6	87		130	34	33	.063	.080	150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
4-12-69	7.7	30	280	10.8	89	0.9	7.6	87		130					1,100
4-13-69	6.6	20	290	11.0	88	1.0	7.6	92		130					240
4-14-69	6.5	9	270	11.2	90	0.6	7.6	90		130					150
4-15-69	6.6	10	290	13.8	110	0.7	7.6	91		130					240
4-16-69	7.2	7	290	14.5	118	0.9	7.6	91		130					460
4-17-69	8.3	6	290	14.3	120	0.8	7.6	91		130					1,100
4-18-69	7.7	40	240	14.0	115	0.9	7.6	93		134	28	33	.060	.105	240
4-19-69	6.6	30	270	11.2	90	0.9	7.6	92		132					460
4-20-69	6.6	20	290	11.3	91	1.2	7.6	95		130					240
4-21-69	6.6	20	270	11.9	96	1.1	7.6	95		136					460
4-22-69	6.6	10	280	12.5	100	0.7	7.6	95		134					1,100
4-23-69	7.2	95	250	13.0	107	0.8	7.5	96		136					1,100
4-24-69	7.7	30	250	13.0	108	1.2	7.6	96		136					1,100
4-25-69	8.3	50	250	10.6	89	1.1	7.6	88		138	21	30	.085	.129	150
4-26-69	8.8	20	280	12.6	107	1.0	7.6	90		136					1,100
4-27-69	9.4	30	290	10.6	92	1.0	7.6	88		130					460
4-28-69	10.0	30	290	11.6	102	1.1	7.6	89		130					40
4-29-69	10.0	20	290	10.5	92	0.9	7.6	90		132					1,100
4-30-69	10.0	20	260	12.5	109	1.0	7.6	90		132					460
Apr. Avg.	6.6	28	266	12.9	103	0.9	7.6	92		131	28	32	.057	.088	620
Max.	10.0	95	320	15.2	120	1.2	7.6	98		138	34	33	.085	.129	2,400
Min.	2.2	6	230	10.5	87	0.7	7.4	87		128	21	30	.020	.038	40
5-1-69	8.8	20	260	12.4	105	1.1	7.6	90		132					150
5-2-69	8.3	10	280	11.0	94	1.0	7.7	95		130	41	33	.022	.025	93
5-3-69	10.1	10	310	10.6	95	1.1	7.6	95		138					43
5-4-69	10.1	6	340	11.0	91	1.4	7.6	95		140					93
5-5-69	10.1	8	280	10.5	94	1.0	7.6	97		132					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coil.
5-6-69	9.4	6	280	11.7	102	1.1	7.6	100		132					23
5-7-69	9.4	10	260	12.3	87	1.0	7.6	102		138					43
5-8-69	9.4	10	270	12.0	105	1.1	7.6	100		138					240
5-9-69	10.1	50	280	10.7	95	1.1	7.6	105		132	23	32	.063	.129	460
5-10-69	9.4	50	310	10.2	90	1.1	7.6	98		130					2,400
5-11-69	9.4	50	280	9.5	82	1.5	7.6	96		130					2,400
5-12-69	9.4	50	290	10.0	87	1.3	7.6	95		130					2,400
5-13-69	10.1	30	290	9.4	83	1.3	7.6	97		134					2,400
5-14-69	10.5	10	280	11.5	102	1.1	7.6	98		134					460
5-15-69	11.1	20	290	11.4	104	1.1	7.6	98		134					460
5-16-69	11.1	15	290	10.2	92	1.1	7.6	92		132	23	32	.035	.068	460
5-17-69	11.1	10	310	10.5	95	1.4	7.6	100		132					150
5-18-69	12.2	15	300	10.3	96	1.2	7.6	96		132					1,100
5-19-69	12.2	6	290	10.1	95	1.1	7.6	98		130					460
5-20-69	13.3	8	290	9.8	93	1.2	7.6	97		130					43
5-21-69	12.7	6	270	10.5	98	1.1	7.6	97		130					210
5-22-69	12.7	8	280	10.5	98	1.1	7.6	98		130					2,400
5-23-69	12.2	6	260	9.2	85	1.3	7.6	100		132	19	28	.031	.051	240
5-24-69	11.6	6	280	8.9	81	1.4	7.6	105		132					75
5-25-69	12.2	6	290	8.8	81	1.4	7.6	97		130					290
5-26-69	12.2	30	290	10.7	100	1.4	7.6	104		130					240
5-27-69	12.2	6	290	10.1	95	1.1	7.6	98		130					460
5-28-69	12.2	10	260	10.2	95	1.1	7.6	100		130					460
5-29-69	14.4	20	270	10.4	100	1.2	7.6	100		130					460
5-30-69	14.4	10	290	8.8	85	1.4	7.6	98		128	18	29	.020	.051	43
5-31-69	14.4	8	270	8.9	86	1.2	7.6	100		128					43
May Avg.	11.2	16	285	10.4	93	1.2	7.6	98		131	25	31	.034	.065	611
Max.	14.4	50	340	12.4	105	1.5	7.7	105		140	41	33	.063	.129	2,400
Min.	8.3	6	260	8.8	81	1.0	7.6	90		128	18	28	.020	.025	23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-1-69	14.4	10	270	8.4	82	1.3	7.6	100		130					93
6-2-69	14.4	6	280	8.2	90	1.4	7.6	98		130					150
6-3-69	15.0	15	280	8.3	82	1.1	7.6	98		130					1,100
6-4-69	14.4	40	260	9.0	87	1.1	7.7	99		130					2,400
6-5-69	15.0	30	270	8.7	85	1.1	7.7	100		130					460
6-6-69	15.0	40	280	8.7	85	1.2	7.7	100		136	19	28	.068	.068	150
6-7-69	15.0	15	290	7.9	77	1.2	7.6	100		136					93
6-8-69	15.0	15	290	7.5	73	1.3	7.6	98		134					93
6-9-69	15.0	10	290	9.0	89	1.2	7.6	97		138					93
6-10-69	15.0	8	310	7.5	73	0.8	7.6	105		138					210
6-11-69	15.0	6	280	8.7	85	0.9	7.5	100		138					75
6-12-69	16.6	8	290	8.0	81	0.8	7.6	100		138					43
6-13-69	16.6	15	310	8.2	84	0.9	7.6	102		140	12	35	.042	.051	120
6-14-69	17.2	8	320	7.2	75	0.8	7.6	102		140					240
6-15-69	16.6	10	310	7.3	75	1.3	7.6	100		136					75
6-16-69	16.1	6	290	7.2	72	1.0	7.6	95		136					1,100
6-17-69	17.7	4	290	7.6	79	1.2	7.6	102		136					1,100
6-18-69	17.7	4	290	7.5	77	1.0	7.6	100		140					2,400
6-19-69	17.7	3	290	7.6	79	0.9	7.6	100		140					1,100
6-20-69	17.7	6	280	7.2	75	1.0	7.6	99		132	19	33	.033	.025	93
6-21-69	16.1	3	290	7.9	80	1.0	7.6	100		132					9
6-22-69	16.1	3	290	7.3	74	1.2	7.6	99		134					150
6-23-69	16.1	2	340	9.0	91	1.0	7.6	102		134					460
6-24-69	16.1	4	290	7.7	77	1.1	7.6	105		134					1,100
6-25-69	16.6	2	290	8.3	85	1.2	7.6	103		134					28
6-26-69	16.6	2	290	8.0	81	0.8	7.4	103		138					23
6-27-69	18.8	5	310	7.8	82	1.0	-	102		138	19	32	.010	.025	3
6-28-69	18.8	5	320	8.5	90	1.1	-	102		138					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-29-69	18.8	5	320	7.7	81	1.3	-	100		136					1,100
6-30-69	18.8	4	320	7.9	84	0.9	-	100		134					210
June Avg.	16.3	10	294	8.0	81	1.1	7.6	100		135	17	32	.038	.042	484
Max.	18.8	40	340	9.2	91	1.4	7.7	105		140	19	35	.068	.068	2,400
Min.	14.4	2	260	7.2	72	0.8	7.4	95		130	12	28	.010	.025	3
7-1-69	20.0	4	310	8.9	97	0.9		105		136					14
7-2-69	20.0	4	300	9.0	98	1.1		105		136					15
7-3-69	20.0	3	300	8.5	93	1.2		105		136					4
7-4-69	20.0	5	300	7.4	81	1.5	7.8	102		142	30	36	.006	.005	23
7-5-69	20.0	4	340	7.5	82	1.3	7.7	102		140					150
7-6-69	20.0	4	340	6.8	74	1.4		97		140					2,400
7-7-69	14.4	30	290	7.5	73	1.2	7.5	102		142					1,100
7-8-69	12.2	20	280	6.8	64	1.2	7.5	105		136					1,100
7-9-69	13.3	3	290	8.4	80	1.0	7.7	104		140					240
7-10-69	14.4	3	290	8.0	78	1.0	7.7	105		140					150
7-11-69	14.4	6	300	8.4	82	1.0	7.8	105		138					
7-12-69	14.4	10	320	8.2	80	1.1	7.8	103		136					21
7-13-69	20.5	4	310	8.8	97	1.5	7.7	103		138					93
7-14-69	20.5	4	300	10.1	111	1.5	7.6	102		136					43
7-15-69	20.5	4	310	9.5	104	1.0	7.6	102		136					93
7-16-69	22.2	4	330	10.2	116	1.0	7.7	104		136					43
7-17-69	22.2	4	330	10.3	117	1.1	7.7	103		136					23
7-18-69	22.2	4	330	9.0	102	1.2	7.6	102		136	32	36	.004	.005	23
7-19-69	22.2	8	330	9.4	106	1.2	7.6	104		136					4
7-20-69	22.2	3	310	9.8	111	1.3	7.6	100		136					4
7-21-69	20.5	4	290	9.8	108	2.0	7.8	101		136					21
7-22-69	17.7	8	300	6.7	70	1.2	7.6	103		138					15

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-23-69	15.5	4	300	6.5	65	1.2	7.6	103		138					4
7-24-69	16.1	4	290	7.2	73	1.4	7.5	105		138					4
7-25-69	20.5	3	300	9.3	102	1.1	7.6	103		136	30	36	.004	.008	15
7-26-69	22.2	3	290	9.5	108	1.4	7.6	103		136					39
7-27-69	21.6	3	300	8.9	100	1.2	7.6	103		136					4
7-28-69	22.2	15	290	8.3	94	1.2	7.7	102		136					9
7-29-69	22.2	15	320	8.1	92	1.0	7.8	103		136					120
7-30-69	22.2	15	320	8.4	95	1.5	7.9	103		136					15
7-31-69	23.3	3	320	8.5	98	1.2	8.3	103		136					7
July Avg.	19.3	7	307	8.5	92	1.2	7.7	103		137	31	36	.005	.005	193
Max.	23.3	30	340	10.3	117	2.0	8.3	105		142	32	36	.006	.005	2,400
Min.	12.2	3	280	6.5	64	0.9	7.5	97		136	30	36	.004	.005	4
8-1-69	23.8	3	320	8.4	98	1.1	7.8	102		134	19	31	.022	.025	4
8-2-69	23.8	4	330	7.2	84	1.6	7.7	101		134					0
8-3-69						1.3	7.7	102		134					
8-4-69	24.4	4	340	7.0	82	1.0	7.8	100		134					23
8-5-69	24.4	4	340	8.2	96	1.2	7.8	102		136					23
8-6-69	24.4	3	340	8.5	100	1.2	7.9	103		136					23
8-7-69	25.0	4	340	8.5	101	1.2	7.9	102		136					14
8-8-69	25.0	50	310	7.2	86	1.2	7.7	97		134	31	31	.082	.148	150
8-9-69	25.0	15	300	6.0	71	1.7	7.8	100		134					15
8-10-69	25.0	20	310	8.2	97	1.8	7.7	100		134					15
8-11-69	25.0	20	280	6.8	81	1.4	7.8	99		136					20
8-12-69	24.4	10	300	8.0	94	1.2	7.8	99		136					15
8-13-69	23.8	4	310	11.3	132	1.2	8.0	103		136					4
8-14-69	23.8	3	310	11.3	132	1.2	8.0	102		136					4
8-15-69	23.8	10	310	7.0	81	1.2	7.7	100		136	23	30	.012	.025	4
8-16-69	23.8	6	300	6.0	70	1.5	7.6	102		136					4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-17-69	23.8	8	300	8.0	93	1.7	7.7	97		136					9
8-18-69	23.8	10	290	6.7	78	1.2	7.9	99		136					9
8-19-69	25.0	8	310	8.0	95	1.1	7.7	100		136					20
8-20-69	24.4	2	310	8.5	100	1.2	7.9	100		136					0
8-21-69	23.8	2	310	8.5	99	1.2	7.8	100		136					200
8-22-69	23.8	20	320	7.3	85	0.8	7.9	100		132					4
8-23-69	23.8	6	300	8.0	93	1.3	7.8	98		132					4
8-24-69	23.8	4	290	8.7	101	1.4	7.9	95		136					4
8-25-69	25.5	3	290	9.5	114	1.1	7.9	97		134					4
8-26-69	25.5	10	300			0.9	7.9	97		134					4
8-27-69	25.5	2	310	8.5	102	1.3	7.9	99		134					9
8-28-69	25.5	3	300	8.7	104	1.1	7.9	100		134					7
8-29-69	25.5	15	310	8.2	98	1.0	7.9	97		138	23	31	.010	.030	0
8-30-69	25.5	10	320	8.7	104	1.3	7.9	97		138					4
Aug. Avg.	24.5	9	311	8.1	95	1.3	7.8	100		135	24	31	.032	.057	21
Max.	25.5	50	340	11.3	132	1.8	8.0	103		138	31	31	.082	.148	200
Min.	23.8	2	280	6.0	70	0.8	7.6	95		132	19	30	.010	.025	0
9-1-69	25.5	4	320	8.2	98	1.3	7.7	95		138					0
9-2-69	25.0	20	310	7.5	89	1.3	7.9	95		138					7
9-3-69	23.8	4	320	7.5	87	1.3	7.6	97		138					9
9-4-69	23.8	4	310	7.5	87	1.1	7.6	97		138					0
9-5-69	23.3	20	280	5.7	66	1.1	7.6	102		138	28	31	0.003	0.03	0
9-6-69	23.3	20	280	5.2	60	1.4	7.6	95		138					0
9-7-69	23.8	11	280	6.3	73	1.5	7.7	98		138					4
9-8-69	23.8	20	240	6.4	75	1.1	7.6	97		138					0
9-9-69	22.7	50	310	8.2	94	1.1	7.7	97		138					23
9-10-69	22.7	50	360	8.3	95	1.3	7.6	102		138					23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
9-11-69	21.6	30	360	8.3	93	1.0	7.6	102		138					93
9-12-69	21.1	60	270	9.0	100	1.1	7.7	97		140	21	27	0.04	0.04	15
9-13-69	21.1	40	270	8.0	89	1.2	7.7	100		140					39
9-14-69	21.1	10	310	7.3	81	1.4	7.7	102		138					43
9-15-69	21.1	10	310	8.7	97	1.0	7.7	97		138					9
9-16-69	21.6	6	290	8.7	97	1.1	7.7	99		134					0
9-17-69	21.1	15	190	8.5	94	1.1	7.6	96		138					4
9-18-69	20.5	6		8.5	93	1.0	7.6	98		138					0
9-19-69	20.0	15	270	9.2	100	1.1	7.7	98		134	24	31	0.02	0.06	4
9-20-69	16.6	10	290	5.0	51	1.4	7.5	105		134					4
9-21-69	18.8	6	270	9.2	98	1.3	7.9	102		134					9
9-22-69	18.8	6	270	9.2	98	1.2	7.7	105		132					4
9-23-69	18.8	4	270	8.4	89	1.3	7.7	100		132					0
9-24-69	18.8	8	220	9.4	100	1.1	7.8	100		132					0
9-25-69	18.3	6	220	9.4	99	1.1	7.6	100		132					9
9-26-69	18.3	15	240	9.8	103	1.1	7.8	100		132	21	31	0.02	0.03	0
9-27-69	18.3	4	270	9.3	98	1.3	7.7	101		132					0
9-28-69	16.6	6	270	8.2	84	1.5	7.6	99		132					4
9-29-69	17.2	30	290	8.2	85	1.1	7.6	100		132					
9-30-69	17.2	30	270	10.0	103	1.1	7.6	103		132					
Sep. Avg.	20.8	17	281	8.1	89	1.2	7.7	99		136	24	30	0.02	0.04	11
Max.	25.5	60	360	10.0	103	1.5	7.9	105		140	28	31	0.04	0.06	93
Min.	16.6	4	190	5.0	51	1.0	7.5	95		132	21	27	0.003	0.03	0
10-1-69	17.2	11	260	10.2	105	0.8	7.6	98		132					4
10-2-69	17.2	14	250	9.2	95	1.0	7.6	100		132					9
10-3-69	17.2	16	280	9.5	95	1.1	7.7	100		132	23	31	0.01	0.03	0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
9-11-69	21.6	30	360	8.3	93	1.0	7.6	102		138					93
9-12-69	21.1	60	270	9.0	100	1.1	7.7	97		140	21	27	0.04	0.04	15
9-13-69	21.1	40	270	8.0	89	1.2	7.7	100		140					39
9-14-69	21.1	10	310	7.3	81	1.4	7.7	102		138					43
9-15-69	21.1	10	310	8.7	97	1.0	7.7	97		138					9
9-16-69	21.6	6	290	8.7	97	1.1	7.7	99		134					0
9-17-69	21.1	15	190	8.5	94	1.1	7.6	96		138					4
9-18-69	20.5	6		8.5	93	1.0	7.6	98		138					0
9-19-69	20.0	15	270	9.2	100	1.1	7.7	98		134	24	31	0.02	0.06	4
9-20-69	16.6	10	290	5.0	51	1.4	7.5	105		134					4
9-21-69	18.8	6	270	9.2	98	1.3	7.9	102		134					9
9-22-69	18.8	6	270	9.2	98	1.2	7.7	105		132					4
9-23-69	18.8	4	270	8.4	89	1.3	7.7	100		132					0
9-24-69	18.8	8	220	9.4	100	1.1	7.8	100		132					0
9-25-69	18.3	6	220	9.4	99	1.1	7.6	100		132					9
9-26-69	18.3	15	240	9.8	103	1.1	7.8	100		132	21	31	0.02	0.03	0
9-27-69	18.3	4	270	9.3	98	1.3	7.7	101		132					0
9-28-69	16.6	6	270	8.2	84	1.5	7.6	99		132					4
9-29-69	17.2	30	290	8.2	85	1.1	7.6	100		132					
9-30-69	17.2	30	270	10.0	103	1.1	7.6	103		132					
Sep. Avg.	20.8	17	281	8.1	89	1.2	7.7	99		136	24	30	0.02	0.04	11
Max.	25.5	60	360	10.0	103	1.5	7.9	105		140	28	31	0.04	0.06	93
Min.	16.6	4	190	5.0	51	1.0	7.5	95		132	21	27	0.003	0.03	0
10-1-69	17.2	11	260	10.2	105	0.8	7.6	98		132					4
10-2-69	17.2	14	250	9.2	95	1.0	7.6	100		132					9
10-3-69	17.2	16	280	9.5	95	1.1	7.7	100		132	23	31	0.01	0.03	0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
10-4-69	17.2	10	290	8.0	83	1.3	7.6	99		132					43
10-5-69	17.2	8	280	7.3	75	1.0	7.6	103		132					9
10-6-69	17.2	6	290	8.2	85	1.4	7.6	102		132					23
10-7-69	17.2	5	290	7.7	79	1.4	7.7	100		140					4
10-8-69	16.6	20		8.7	89	0.9	7.6	99		138					43
10-9-69	16.6	10		8.7	89	0.9	7.6	100		138					9
10-10-69	16.6	30	270	9.5	97	1.0	7.6	102		136	19	31	0.02	0.09	15
10-11-69	16.6	10	280	7.5	77	1.1	7.7	100		136					4
10-12-69	16.6	9	260	9.1	93	1.2	7.6	102		136					23
10-13-69	16.6	10	290	7.5	77	0.8	7.6	101		138					43
10-14-69	16.6	30	290	8.4	86	1.0	7.6	101		138					43
10-15-69	16.1	15	280	9.4	95	1.1	7.6	100		138					23
10-16-69	16.1	15	280	9.6	97	0.9	7.6	100		138					23
10-17-69	15.5	50	290	9.5	95	0.9	7.6	101		134	23	32	0.04	0.14	93
10-18-69	13.8	50	280	9.2	89	1.0	7.6	99		134					43
10-19-69	14.4	50	280	8.5	83	1.4	7.6	105		134					20
10-20-69	14.4	50	300	9.0	88	0.9	7.6	100		134					93
10-21-69	13.8	70	310	8.7	84	1.0	7.6	99		134					93
10-22-69	12.7	50	290	8.9	84	1.1	7.6	100		134					240
10-23-69	12.2	40	290	9.0	84	1.0	7.6	101		134					240
10-24-69	11.1	50	280	8.5	76	1.0	7.6	100		138	23	39	0.03	0.09	93
10-25-69	11.1	50	310	10.5	96	1.4	7.6	98		138					240
10-26-69	11.6	20	310	11.0	101	1.2	7.6	105		138					240
10-27-69	11.1	30	300	10.5	96	1.1	7.4	102		138					93
10-28-69	11.1	40	290	9.7	89	1.1	7.4	100		138					150
10-29-69	11.1	15	280	9.7	89	1.1	7.4	101		138					23
10-30-69	11.1	8	280	9.8	89	1.1	7.4	100		138					240
10-31-69	11.1	15	290	9.5	87	1.0	7.6	100		134	29	40	0.01	0.03	93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
Oct. Avg.	14.4	26	285	9.0	89	1.1	7.6	101		136	23	35	0.02	0.08	75
Max.	17.2	50	310	11.0	105	1.4	7.7	105		140	29	40	0.04	0.14	240
Min.	11.1	5	250	7.3	75	0.8	7.4	98		132	19	31	0.01	0.03	0
11-1-69	11.1	6	290	10.5	96	1.1	7.6	105		134					15
11-2-69	11.1	8	290	9.0	82	1.0	7.6	97		136					23
11-3-69	11.1	8	290	10.7	98	0.9	7.7	102		142					15
11-4-69	11.1	8	280	10.8	99	0.9	7.6	100		138					15
11-5-69	10.5	30	280	10.8	97	1.0	7.6	100		138					93
11-6-69	10.5	30	280	10.8	97	0.9	7.6	101		138					2,400
11-7-69	10.0	40	270	10.3	91	1.0	7.7	97		138	21	35	0.03	0.08	460
11-8-69	10.0	10	290	11.0	97	1.0	7.6	97		140					460
11-9-69	10.0	15	280	10.6	94	1.1	7.7	105		140					460
11-10-69	10.0	8	280	11.5	102	1.0	7.7	98		138					240
11-11-69	10.5	6	300	11.8	105	0.7	7.6	100		138					43
11-12-69	10.0	15	300	11.0	97	0.9	7.6	102		138					240
11-13-69	10.0	15	300	10.8	95	1.0	7.6	100		138					240
11-14-69	9.4	40	280	11.5	100	0.9	7.4	101		134	19	37	0.04	0.06	93
11-15-69	8.3	20	250	11.2	95	0.8	7.6	100		132					93
11-16-69	6.6	40	250	11.2	91	0.8	7.6	100		132					150
11-17-69	7.2	15	260	11.5	95	1.4	7.6	100		132					240
11-18-69	7.2	8	260	11.3	94	0.8	7.7	103		134					240
11-19-69	7.7	30	270	11.7	98	0.9	7.5	100		134					240
11-20-69	6.6	50	270	11.5	94	0.9	7.6	100		134					93
11-21-69	6.1	40	240	11.2	90	1.0	7.5	95		138	22	32	0.07	0.14	460
11-22-69	5.0	30	250	12.0	94	1.1	7.6	92		138					460
11-23-69	5.5	40	240	12.0	95	0.8	7.6	94		134					460
11-24-69	5.5	40	230	12.6	100	0.8	7.6	94		134					240

TABLE 4 (Continued

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coll.
11-25-69	6.1	30	230	12.6	102	0.9	7.7	97		134					1,100
11-26-69	6.1	40	240	12.0	97	0.8	7.6	93		134					240
11-27-69	6.1	20	230	12.2	98	1.2	7.6	95		134					1,100
11-28-69	5.5	20	250	11.0	87	1.4	7.6	92		136	19	31	0.03	0.07	93
11-29-69	5.5	40	260	11.6	92	0.9	7.6	94		136					240
11-30-69	5.0	60	260	12.0	94	1.2	7.6	94		136					
Nov. Avg.	8.2	25	267	11.3	95	1.0	7.6	98		136	20	34	0.04	0.09	353
Max.	11.1	60	300	12.6	105	1.4	7.7	105		144	22	37	0.07	0.14	2,400
Min.	5.0	6	230	9.0	82	0.7	7.4	92		132	19	31	0.03	0.06	15
12-1-69	5.0	60	280	12.2	96	0.8	7.6	94		136					43
12-2-69	3.8	60	210	13.0	99	0.9	7.4	95		134					240
12-3-69	3.8	40	210	13.1	100	0.9	7.6	95		134					240
12-4-69	2.7	40	220	12.5	92	0.8	7.6	93							2,400
12-5-69	2.7	40	210	12.2	90	1.0	7.6	95		134	30	20	0.04	0.15	23
12-6-69	2.7	60	240	12.8	95	0.8	7.4	97		134					460
12-7-69	2.7	30	210	12.8	95	0.8	7.6	94		134					1,100
12-8-69	2.7	30	250	12.5	92	0.9	7.6	97		134					43
12-9-69	2.7	20	240	12.7	94	1.0	7.6	97		134					1,100
12-10-69	2.7	20	220	12.7	94	0.7	7.6	98		134					1,100
12-11-69	2.7	40	220	12.5	92	0.7	7.6	98		134					240
12-12-69	2.7	40	240	12.8	95	0.7	7.6	95		134	30	26	0.04	0.12	150
12-13-69	2.7	50	220	12.5	92	0.9	7.6	95		134					210
12-14-69	2.7	30	220	12.8	95	1.0	7.6	94		134					150
12-15-69	2.7	30	210	12.9	95	0.8	7.6	92		134					1,100
12-16-69	2.7	20	220	12.9	95	0.9	7.6	90		134					2,400
12-17-69	1.6	40	220	12.5	90	0.8	7.6	98		134					43

TABLE 4 (Continued

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
11-25-69	6.1	30	230	12.6	102	0.9	7.7	97		134					1,100
11-26-69	6.1	40	240	12.0	97	0.8	7.6	93		134					240
11-27-69	6.1	20	230	12.2	98	1.2	7.6	95		134					1,100
11-28-69	5.5	20	250	11.0	87	1.4	7.6	92		136	19	31	0.03	0.07	93
11-29-69	5.5	40	260	11.6	92	0.9	7.6	94		136					240
11-30-69	5.0	60	260	12.0	94	1.2	7.6	94		136					
Nov. Avg.	8.2	25	267	11.3	95	1.0	7.6	98		136	20	34	0.04	0.09	353
Max.	11.1	60	300	12.6	105	1.4	7.7	105		144	22	37	0.07	0.14	2,400
Min.	5.0	6	230	9.0	82	0.7	7.4	92		132	19	31	0.03	0.06	15
12-1-69	5.0	60	280	12.2	96	0.8	7.6	94		136					43
12-2-69	3.8	60	210	13.0	99	0.9	7.4	95		134					240
12-3-69	3.8	40	210	13.1	100	0.9	7.6	95		134					240
12-4-69	2.7	40	220	12.5	92	0.8	7.6	93							2,400
12-5-69	2.7	40	210	12.2	90	1.0	7.6	95		134	30	20	0.04	0.15	23
12-6-69	2.7	60	240	12.8	95	0.8	7.4	97		134					460
12-7-69	2.7	30	210	12.8	95	0.8	7.6	94		134					1,100
12-8-69	2.7	30	250	12.5	92	0.9	7.6	97		134					43
12-9-69	2.7	20	240	12.7	94	1.0	7.6	97		134					1,100
12-10-69	2.7	20	220	12.7	94	0.7	7.6	98		134					1,100
12-11-69	2.7	40	220	12.5	92	0.7	7.6	98		134					240
12-12-69	2.7	40	240	12.8	95	0.7	7.6	95		134	30	26	0.04	0.12	150
12-13-69	2.7	50	220	12.5	92	0.9	7.6	95		134					210
12-14-69	2.7	30	220	12.8	95	1.0	7.6	94		134					150
12-15-69	2.7	30	210	12.9	95	0.8	7.6	92		134					1,100
12-16-69	2.7	20	220	12.9	95	0.9	7.6	90		134					2,400
12-17-69	1.6	40	220	12.5	90	0.8	7.6	98		134					43

TABLE 4 (Concluded)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T.Fe	T.Mn	T. Coli.
12-18-69	1.6	40	220	12.8	92	0.8	7.6	95		134					120
12-19-69	1.6	30	240	13.0	93	0.7	7.6	90		134	32	30	0.03	0.12	43
12-20-69	1.1	60	240	12.7	90	0.9	7.4	91		134					2,400
12-21-69	1.1	50	320	14.0	99	0.9	7.6	90		134					460
12-22-69	1.1	50	270	10.9	77	0.8	7.6	92		134					150
12-23-69	0.5	70	300	12.9	90	0.6	7.6	95		134					1,100
12-24-69	0.5	50	230	12.8	89	0.9	7.6	97		134					150
12-25-69	0.5	30	240	12.5	87	1.5	7.6	97		134					2,400
12-26-69	0.5	50	270	12.2	85	1.0	7.6	88		144	25	33	0.05	0.12	150
12-27-69	0.5	30	260	11.6	81	1.0	7.6	95		138					43
12-28-69	0.5	70	260	12.7	88	1.4	7.6	97		138					93
12-29-69	0.5	30	260	12.4	86	0.8	7.6	98		138					
12-30-69	0.5	30	210	12.2	85	0.9	7.6	94		138					
12-31-69	0.5	50	220	12.5	87	1.0	7.7	98		138					
Dec. Avg.	2.0	42	238	12.6	92	0.9	7.6	95		135	29	27	0.04	0.13	648
Max.	5.0	70	320	14.0	100	1.5	7.7	98		144	32	33	0.05	0.15	2,400
Min.	0.5	20	210	10.9	77	0.6	7.4	88		134	25	20	0.03	0.12	23

TABLE 5

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Toledo												
1--9-69	0.5	14.2	98	.18	.14	.24	.86	2.80	20.7	1,500	180	3,100
1-21-69	1.3	13.9	98	.10	.09	.54	.11	.91	16.3	<5	<5	400
2--3-69	1.2	13.9	98	.08	.08	1.54	.52	3.20	35.4	6,400	2,700	6,100
2-17-69	1.0	14.1	99	.26	.13	.21	.19	.38	7.7	10	<5	210
3- 4-69	1.8	14.8	105	.12	.10	.27	.13	.38	8.4	35	<2	190
3-18-69	2.7	14.2	104	.07	.03	–	.30	.22	12.4	<2	<1	24
4- 1-69	2.5	13.7	100	.12	.09	.58	.52	.34	12.0	<5	<5	85
4-17-69	9.0	12.6	108	.05	.02	.56	.10	.96	11.0	<1	<1	67
4-28-69	10.5	10.5	93	.03	.03	.39	.09	.58	8.7	90	<5	98
5-12-69	12.5	9.2	85	.09	.06	1.19	.25	.24	11.4	<10	<10	210
5-27-69	14.5	9.8	95	.08	.05	.50	.08	1.04	15.8	<2	<2	110
6-10-69	16.9	8.3	85	.04	.04	.70	.12	.50	11.7	<5	<5	140
6-23-69	17.0	7.4	75	.12	.08	.44	.08	.44	13.6	120	<5	320
7- 8-69	20.0	7.1	78	.13	.01	1.19	.15	.50	16.8	530	<2	590
7-21-69	24.0	6.0	70	.09	.07	.90	.10	1.21	14.1	40	<2	650
8- 4-69	24.0	8.3	98	.07	-	1.38	.04	.82	17.5	<10	<5	1,700
8-19-69	23.1	7.7	90	.07	.06	.33	.27	.00	11.7	100	<2	17,000
9- 2-69	24.0	5.7	66	.08	.03	.52	.34	.02	15.4	30	<1	1,500
9-15-69	20.5	6.4	70	.08	.05	.71	.45	.03	16.4	20	<2	670
9-30-69	18.0	8.1	85	.06	.03	.53	.35	.16	13.4	180	<5	7,000
10-16-69	14.5	9.2	89	.09	.03	.32	.28	.17	10.3	<2	<2	480
10-30-69	8.5	11.3	96	.03	.02	.82	.04	.14	-	<2	<2	320,000
11-14-69	7.0	11.5	96	.03	.02	-	-	.10	13.3	40	<2	-
11-26-69	5.0	12.9	102	.07	.04	.32	.10	.11	7.4	600	90	2,200
12-11-69	2.0	13.6	100	.06	.05	.24	.04	.24	10.9	48	<2	280
12-22-69	0	14.7	102	.06	.06	-	-	-	-	<3	<2	560
Port Clinton												
1- 8-69	1.0	13.9	98	.10	.07	.61	.19	1.32	17.6	<2	<2	320

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Port Clinton (Cont'd)												
1-21-69	1.0	12.5	88	.46	.39	.83	1.12	4.65	21.1	7,900	1,200	11,000
2- 4-69	1.0	14.3	100	.30	.16	.79	.27	1.88	16.6	510	190	2,600
2-18-69	1.0	13.3	93	.28	.25	.86	.64	2.56	24.7	430	70	1,800
3- 4-69	1.9	14.2	101	.25	.22	.72	.00	1.16	13.2	20	<2	320
3-18-69	3.0	14.9	110	.10	.04	.49	.33	.68	14.8	<5	<5	320
4- 1-69	2.5	13.3	97	.13	.05	-	.00	1.38	10.4	550	350	440
4-17-69	11.0	11.8	106	.07	.01	.42	.06	.72	9.5	540	200	150
4-28-69	13.5	9.5	90	.20	.10	1.12	.32	-	20.5	120	60	270
5-11-69	10.9	9.0	81	.25	.05	.90	.26	2.18	19.9	1,100	300	620
5-27-69	15.0	7.6	75	.12	.05	.60	.42	3.20	22.5	11,000	2,200	2,800
6-10-69	17.0	7.3	75	.10	.06	.62	.22	1.12	15.8	1,300	810	1,100
6-23-69	17.5	7.0	82	.08	.03	.72	.12	0.72	15.6	2,600	240	1,300
7- 8-69	-	5.2	-	.26	.08	1.29	.69	1.70	28.4	34,000	2,100	31,000
7-21-69	25.0	5.5	66	.03	.03	.68	.18	.40	11.2	400	40	2,400
8- 4-69	24.8	4.2	50	.05	.03	.83	.09	.04	13.4	31	25	2,400
8-19-69	23.7	6.1	70	-	-	.37	.33	.13	8.3	1,500	120	7,000
9- 2-69	24.0	1.2	13	.08	.04	.65	.59	.05	16.6	1,000	250	1,400
9-15-69	20.5	5.3	59	.08	.03	.39	.43	.09	12.8	4,500	760	1,100
9-30-69	17.0	7.9	81	.09	.03	.48	.45	.08	16.9	37,000	1,100	1,600
10-16-69	14.5	8.9	87	.04	.03	.00	.06	.22	15.7	62,000	5,100	3,100
10-30-69	9.0	11.1	95	.10	.03	.33	.13	.27	-	22,000	2,300	13,000
11-14-69	7.0	10.8	90	.05	.02	.42	.06	.14	23.6	38	<2	-
11-26-69	5.0	12.7	101	.24	.11	.44	1.24	1.21	17.4	1,900	440	7,600
12-11-69	1.0	13.8	98	.19	.09	.47	.09	.87	17.0	2,000	100	7,400
12-22-69	1.0	14.3	102	.10	.07	-	-	-	-	500	72	1,300
Sandusky												
1- 7-69	0.0	14.3	98	.05	.04	.37	.13	.53	13.3	60	10	280
1-21-69	0.5	14.9	103	.09	.04	.41	.09	.55	11.3	520	270	2,500

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Sandusky (Cont'd)												
2 -4-69	0.0	14.3	98	.10	.10	.66	.24	1.72	17.5	30	10	1,400
2-18-69	0.5	13.1	91	.20	.13	.46	.30	.96	9.2	60	<5	650
3- 4-69	1.9	13.9	100	.27	.13	.47	.23	1.10	10.8	<5	<2	280
3-18-69	1.5	14.8	105	.03	.02	.69	.21	.32	7.2	<1	<1	43
4- 1-69	2.5	13.4	98	.06	.06	.21	.13	.36	12.0	<10	<10	150
4-17-69	8.5	12.1	103	.03	.03	.16	.00	.38	8.0	<1	<1	46
4-28-69	10.5	10.6	94	.07	.06	.47	.11	.50	11.0	20	<2	140
5-12-69	12.0	9.9	91	.12	.04	.66	.12	.78	15.1	170	5	196
5-27-69	15.2	9.1	90	.07	.05	.77	.23	1.04	15.8	100	14	190
6- 9-69	16.1	7.8	78	.09	.05	.52	.14	.52	14.1	280	<5	450
6-23-69	17.2	7.8	80	.07	.02	.34	.10	.50	11.4	<10	<3	3,600
7- 8-69	20.0	6.5	71	.20	.02	1.14	.24	.35	29.2	-	-	-
7-21-69	25.0	4.4	53	.05	.01	.68	.24	.28	10.0	<10	<1	1,000
8- 4-69	24.5	5.9	70	.05	.03	.80	.04	.13	12.5	<5	<5	29,000
8-20-69	22.5	7.9	90	.12	.03	.34	.00	.35	13.3	<10	<2	180,000
9- 2-69	24.0	4.1	48	.06	.04	.49	.29	.04	11.2	<10	11	680
9-15-69	21.0	7.2	80	.10	.04	.40	.24	.01	14.0	<10	<2	1,100
9-30-69	17.0	8.1	83	.06	.03	.42	.14	.13	14.2	390	<2	7,200
10-16-69	15.5	9.1	90	.07	.02	.57	.01	.16	20.3	25	<2	88
10-30-69	10.0	11.2	98	.08	.02	.36	.08	.16	-	8	<4	470,000
11-14-69	7.5	11.1	93	.04	.01	.31	.05	.17	21.0	82	<2	-
11-26-69	6.5	12.7	104	.07	.05	.44	.06	.10	9.1	360	22	260
12-11-69	1.0	13.7	98	.12	.06	.39	.09	.28	21.9	110	5	310
12-22-69	5.0	14.5	115	.13	.05	-	-	-	-	100	<5	330
Huron												
1- 7-69	0.0	14.1	96	.07	.04	.28	.22	1.06	11.3	620	340	430
1-21-69	0.5	14.2	98	.15	.07	-	-	1.10	48.8	6,700	1,100	-

TABLE 5 (Continued)

NUTRIENTS, OXYGEN CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Huron (Cont'd)												
2- 4-69	0.0	14.3	98	.12	.10	.42	.16	.36	17.0	40	20	110
2-18-69	0.5	14.2	98	.30	.17	.26	.64	1.00	11.4	110	10	520
3- 4-69	1.5	14.0	99	.22	.11	.38	.18	.84	8.4	10	10	210
3-18-69	2.2	14.9	107	.04	.02	1.06	.24	.64	11.2	5	<1	67
4- 1-69	3.0	13.3	98	.05	.05	.33	.17	.52	16.4	90	10	1,300
4-17-69	8.5	11.4	97	.08	.03	.26	.24	.50	12.5	<2	<2	110
4-28-69	11.0	10.5	94	.07	.04	.45	.09	.52	11.4	40	15	230
5-12-69	12.0	10.5	97	.10	.04	.57	.27	.80	12.9	20	5	100
5-27-69	15.0	9.1	90	.07	.03	.41	.17	.58	11.2	900	280	1,500
6- 9-69	16.0	6.5	65	.07	.03	.33	.15	.48	5.4	2,100	<10	1,600
6-23-69	17.0	7.5	76	.04	.03	.17	.09	.38	10.0	40	<2	1,800
7- 8-69	20.0	6.5	71	.12	.03	.99	.41	.64	16.4	1,400	490	1,300
7-22-69	24.0	3.4	40	.05	-	1.60	.70	.35	22.9	<10	<10	1,000
8- 4-69	24.8	6.3	75	.06	.04	.72	.04	.15	11.2	-	-	-
8-19-69	22.5	4.3	49	.06	.05	.57	.21	.04	7.9	80	<2	4,600
9- 2-69	24.0	4.4	51	.08	.04	.80	.40	.06	15.8	350	<1	650
9-15-69	21.0	6.7	74	.04	.03	.46	.20	.00	17.6	150	<2	1,900
9-30-69	17.2	8.3	86	.03	.03	.43	.09	.10	12.7	840	<3	990
10-16-69	15.5	9.0	90	.07	.02	.17	.19	.16	19.2	410	40	460
10-30-69	10.0	11.2	98	.04	.02	.37	.05	.16	-	280	16	300,000
11-14-69	7.5	11.2	94	.05	.03	.26	.05	.18	24.5	150	90	-
11-26-69	7.2	13.9	116	.05	.03	.27	.03	.07	7.4	1,400	120	410
12-11-69	1.0	13.5	96	.11	.06	.50	.10	.38	5.2	1,600	420	660
12-22-69	0.0	-	-	.09	.06	-	-	-	-	240	100	200

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Vermilion												
1- 7-69	1.3	-	-	.06	.03	.44	.11	.35	9.4	150	5	280
1-21-69	0.5	-	-	.16	.10	.55	.15	1.08	15.9	25,000	960	7,000
2- 4-69	0.0	-	-	.16	.08	.52	.20	.90	12.1	370	130	1,200
2-18-69	1.0	14.0	98	.15	.08	.29	.07	.84	6.6	<5	<5	90
3- 4-69	2.0	14.2	102	.15	.11	.38	.16	.70	7.2	46	10	120
3-18-69	1.5	13.3	95	.09	.05	.21	.25	.84	12.0	49	11	110
4- 1-69	3.0	13.1	98	.07	.05	.51	.11	1.19	15.2	3,300	590	600
4-17-69	10.0	12.0	105	.05	.04	.42	.00	.52	11.8	<2	<2	100
4-28-69	11.0	10.6	95	.08	.03	.35	.09	.68	9.1	<2	<2	100
5-12-69	12.0	10.5	97	.18	.03	1.32	.38	.54	17.3	1,000	52	480
5-27-69	13.5	8.1	77	.05	.01	.33	.11	.30	10.0	1,900	43	640
6- 9-69	16.0	7.8	78	.07	.03	.25	.15	.38	7.5	<2	<2	62
6-23-69	16.8	7.7	78	.07	.03	.45	.03	.30	13.2	15	<6	230
7-22-69	22.0	1.8	20	.07	.03	.93	.11	.58	10.0	200	<2	<5
8- 7-69	24.5	6.1	71	.05	.03	1.26	.04	.04	21.5	<10	16	3,400
8-19-69	23.7	4.1	48	.08	.03	.23	.21	.00	15.8	1,700	180	2,300
9- 2-69	24.0	5.6	65	.05	.02	.50	.22	.00	17.1	-	-	-
9-15-69	21.5	5.7	65	.06	.03	.46	.36	.00	12.8	<10	<2	610
9-30-69	11.8	8.3	76	-	.04	.25	.09	.10	11.1	490	56	1,400
10-16-69	15.5	9.2	91	.06	.02	.36	.04	.15	14.9	540	42	410
10-30-69	9.0	11.4	98	.07	.02	.12	.12	.19	-	710	110	260,000
11-14-69	7.0	11.2	93	.07	.02	.38	.06	.19	25.7	76	8	-
11-26-69	7.0	13.4	111	.04	.03	.32	.02	.13	8.7	32	6	150
12-11-69	1.0	13.5	96	.06	.06	.14	.10	.45	20.9	2,300	550	4,800
12-22-69	1.0	10.2	73	.09	.04	-	-	-	-	<700	36	1,600

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Elyria												
1- 7-69	1.0	14.0	98	.11	.07	.12	.18	.40	14.8	160	50	510
1-21-69	0.5	14.1	98	.07	.06	-	-	.29	23.6	1,300	420	340
2- 4-69	0.0	14.3	98	.27	.07	.28	.14	.48	9.4	150	50	1,100
2-18-69	1.0	14.1	99	.12	.11	.34	.14	.88	11.0	80	64	150
3- 4-69	2.0	14.2	102	.14	.12	.29	.23	.68	8.4	<2	<2	130
3-19-69	1.0	13.0	99	.08	.08	.42	.26	.78	10.8	<5	<5	160
4- 2-69	3.5	13.6	102	.04	.03	.20	.14	.40	10.8	70	50	130
4-16-69	7.0	12.2	100	.05	.03	.04	.16	.46	7.6	<1	<1	120
4-29-69	10.2	10.9	96	.03	.03	.42	.16	.80	12.5	260	20	220
5-13-69	11.5	10.4	95	.05	.03	.74	.28	.54	10.7	130	20	700
5-27-69	12.6	9.7	90	.04	.02	.22	.16	.26	8.3	250	5	760
6- 9-69	15.0	8.0	79	.06	.03	.37	.29	.28	10.0	<2	<2	110
6-23-69	16.5	7.6	77	.05	.03	.38	.02	.24	9.2	52	<2	600
7- 9-69	19.5	6.9	74	.08	.02	1.73	.15	.38	14.0	1,600	230	5,200
7-22-69	22.0	2.1	24	.02	.02	.82	.14	.51	11.2	300	280	-
8- 7-69	24.3	6.6	80	.04	.03	.90	.04	.14	18.8	<10	<2	2,100
8-20-69	22.5	7.7	88	-	-	.32	.16	.00	8.7	<5	<2	170,000
9- 3-69	23.0	6.5	75	.03	.02	.28	.30	.00	8.7	<5	<1	390
9-15-69	22.0	7.7	88	.05	.03	.40	.10	.00	10.0	220	<2	3,000
9-30-69	16.5	8.9	93	.04	.04	.41	.15	.04	13.1	630	<2	6,900
10-16-69	15.5	9.4	94	.04	.02	.16	.10	.14	15.7	72	4	320
10-30-69	10.0	11.2	98	.05	.02	.72	.07	.16	-	110	12	2,000
11-13-69	8.5	11.1	96	.07	.03	.69	.05	.11	21.0	120	18	-
11-24-69	5.0	14.4	114	.06	.03	.82	.06	.22	12.2	700	120	-
12-11-69	1.0	13.0	93	.10	.06	.40	.05	.19	16.5	625	70	600
12-22-69	1.0	14.1	100	.06	.04	-	-	-	-	190	25	140

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Lorain												
1- 7-69	1.8	13.9	99	.13	.10	.30	.30	.47	12.1	2,400	150	Spr.
1-21-69	1.2	14.2	100	.06	.04	-	-	-	10.4	600	230	190
2- 4-69	1.7	14.1	100	.21	.09	.31	.03	.44	5.8	150	40	680
2-18-69	2.5	14.1	103	.10	.09	.42	.12	.86	7.7	10	<10	85
3- 4-69	2.0	13.9	100	.21	.15	.27	.19	.66	7.6	<5	<5	Spr.
3-19-69	1.9	12.6	90	.07	.06	.14	.00	.90	6.8	<5	<5	150
4- 2-69	4.0	13.5	103	.07	.03	.06	.00	.60	8.0	<5	<5	180
4-16-69	9.5	11.7	102	.08	.05	.07	.23	.52	7.2	10	<1	150
4-29-69	11.2	10.9	98	.03	.02	.60	.08	.70	8.0	130	31	130
5-13-69	12.5	10.5	98	.06	.03	.55	.59	.50	8.1	23	21	140
5-27-69	14.1	9.3	90	.06	.03	.24	.16	.28	8.3	180	27	510
6- 9-69	16.0	8.1	81	.07	.03	.30	.12	.30	6.2	100	<10	700
6-24-69	18.7	8.3	88	.04	.03	.15	.03	.24	7.2	25	<3	140
7- 7-69	20.8	6.0	66	.16	.07	1.77	.23	.70	24.0	6,400	2,600	46,000
7-23-69	21.3	1.3	14	.07	.03	.64	.06	.46	6.2	170	42	380
8- 7-69	23.5	7.6	90	.04	-	.67	.03	.14	13.0	20	<2	2,900
8-20-69	23.8	7.2	85	.04	.04	.03	.09	.02	8.3	-	-	-
9- 3-69	24.5	6.5	77	.05	.02	.22	.24	.03	7.5	20	4	360
9-30-69	18.0	8.2	85	.07	.05	.42	.12	.06	11.5	<10	<5	490
10-16-69	17.5	8.8	90	.06	.03	.36	.00	.17	14.2	<10	<2	1,200
10-30-69	10.0	10.8	95	.05	.04	.03	.09	.17	-	16	2	310
11-12-69	10.9	11.3	103	.07	.03	.23	.03	.13	16.3	240	10	-
11-24-69	6.3	13.1	107	.05	.04	.40	.02	.18	8.3	1,400	130	-
12-11-69	4.0	13.6	105	.12	.05	.22	.00	.12	10.9	4	<2	280
12-22-69	1.0	14.1	100	.07	.05	-	-	-	-	400	20	210

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Avon												
1- 7-69	0.0	-	-	.04	.03	.04	.21	.18	12.5	20	10	39
1-22-69	1.9	14.5	104	.05	.05	.37	.13	.29	11.9	20	<2	35
2- 5-69	1.0	4.0	28	.23	.13	.47	.11	.74	9.9	2,100	550	790
2-19-69	0.0	13.2	90	.10	.08	.18	.28	.44	8.1	100	40	65
3- 5-69	0.8	12.5	86	.22	.12	1.38	.28	.70	9.6	350	240	210
3-19-69	1.9	13.1	94	.08	.07	.75	.27	.72	9.6	2,700	230	840
4- 2-69	3.9	13.6	102	.05	.05	.34	.24	.32	13.2	130	20	220
4-16-69	7.0	12.2	99	.08	.02	-	.07	.26	4.6	510	290	290
4-29-69	10.0	10.8	95	.09	.04	.87	.11	.56	17.4	720	85	580
5-13-69	11.8	10.7	97	.05	.04	.28	.16	.54	7.7	<10	<5	140
5-27-69	12.1	10.2	95	.03	.02	.21	.13	.19	7.1	170	5	190
6- 9-69	14.5	8.0	78	.07	.03	.18	.12	.10	5.8	210	40	400
6-24-69	18.0	8.4	89	.04	.01	.24	.02	.26	10.0	1,200	82	480
7- 7-69	20.7	2.6	28	.09	.05	.81	.59	.23	15.6	600	180	1,500
7-22-69	22.0	3.5	40	.03	.03	.72	.06	.54	13.3	25	17	1,000
8- 7-69	23.9	6.3	75	.03	.02	.90	.04	.12	12.5	10	<2	420
8-20-69	23.9	7.9	94	.13	.05	.37	.00	.01	12.1	10	20	5,000
9- 3-69	24.0	5.8	67	.04	.02	.43	.25	.00	10.4	560	42	2,400
9-30-69	18.2	8.5	90	-	.04	.32	.32	.07	15.4	240	<20	60,000
10-16-69	16.0	8.8	88	.06	.02	.24	.04	.16	16.5	1,400	230	7,700
10-30-69	10.5	11.1	99	.03	-	.28	.11	.15	-	1,100	220	6,200,000
11-10-69	10.1	10.5	94	.02	.02	.45	.07	.14	17.2	-	-	-
11-24-69	7.0	13.8	115	.06	.04	.50	.12	.14	9.6	1,300	640	-
12-11-69	12.8	-	-	.11	.06	.39	.01	.17	21.8	6,900	1,000	3,300
12-22-69	1.0	14.4	103	.07	.05	-	-	-	-	1,300	60	460

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Cleveland-Crown												
1- 7-69	0.5	14.1	97	.04	.03	.28	.02	.10	9.8	20	<5	46
1-23-69	0.0	14.2	97	.04	.03	.17	.03	.13	7.7	30	<2	120
2- 5-69	1.0	13.9	98	.16	.08	.31	.05	.22	7.2	90	<5	230
2-19-69	0.0	14.6	100	.12	.05	.54	.34	.28	6.6	<5	<5	18
3- 5-69	0.0	13.1	89	.22	.13	.48	.32	.92	11.6	5	<2	430
3-19-69	1.7	11.3	80	.09	.07	.31	.83	1.14	9.6	17,000	1,900	4,200
4- 2-69	3.0	13.5	99	.07	.04	.21	.17	.32	14.8	<10	<10	130
4-16-69	7.0	13.2	108	.03	.00	1.00	.10	.16	10.6	<1	<1	36
4-29-69	9.5	10.9	95	.04	.01	1.01	.11	.50	11.4	210	15	440
5-13-69	11.5	10.7	98	.06	.05	.32	.12	.32	7.7	70	<2	130
5-26-69	10.9	10.3	93	.03	.02	.03	.13	.18	8.7	450	10	800
6- 9-69	14.5	8.4	81	-	-	.15	.09	.16	5.4	180	<5	70
6-24-69	17.0	7.4	75	.03	.03	.14	.08	.27	7.2	240	19	210
7- 7-69	19.7	5.1	55	.10	.07	1.01	.47	.23	14.4	22	15	670
7-22-69	22.0	2.5	28	.06	.03	1.41	.05	.47	16.2	45	<2	550
8- 7-69	20.5	0.0	00	.17	-	.66	.14	.03	11.2	60	<2	380
8-18-69	16.9	0.2	2	.26	.26	.06	.34	.00	8.7	60	10	330
9- 3-69	19.0	0.0	00	.48	.30	.39	.69	.00	12.9	50	4	230
9-15-69	21.5	7.9	90	.05	.03	.37	.15	.00	15.2	210	30	260
9-30-69	18.5	8.5	90	.04	.03	.11	.19	.03	13.4	<10	<2	1,500
10-15-69	16.0	8.8	88	.05	.02	.21	.05	.11	15.3	2	2	140
10-29-69	11.0	10.5	95	.04	.03	.20	.04	.13	-	<10	4	100
11-10-69	10.2	10.8	97	.05	.03	.40	.20	.13	13.3	8	4	-
11-25-69	-	11.7	-	.04	.04	.63	.19	.20	10.9	120	28	2,000
12-10-69	3.5	12.6	96	.04	.04	.16	.02	.10	8.7	22	4	220
12-22-69	1.2	14.3	102	.08	.04	-	-	-	--	130	<5	190

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Cleveland-Division												
1- 8-69	1.0	14.2	100	.04	.02	.40	.10	.11	9.4	40	30	120
1-21-69	0.0	14.2	97	.06	.04	.39	.11	.17	13.4	130	40	-
2- 4-69	0.0	14.4	99	.10	.06	.94	.02	.18	5.4	30	<5	30
2-18-69	0.0	14.4	99	.11	.10	.60	.00	.30	13.3	20	10	60
3- 4-69	0.0	13.5	92	.28	.13	.66	.26	.78	10.4	5	<2	Spreader
3-18-69	1.0	14.2	100	.04	.01	.04	.22	.36	8.8	700	30	380
4- 1-69	2.0	13.9	100	.05	.03	.17	.03	.18	10.4	50	30	740
4-15-69	6.0	12.9	103	.03	.02	.15	.09	.20	9.1	31	10	100
4-28-69	9.0	10.6	91	.07	.06	.75	.07	.30	15.5	360	<2	170
5-13-69	11.0	10.6	96	.04	.01	.60	.10	.26	5.5	5	<5	42
5-26-69	12.0	10.1	94	.03	.02	.22	.24	.18	9.6	60	<1	110
6-13-69	16.8	9.1	92	.02	.01	.30	.06	.16	5.8	<5	<5	4,200
6-23-69	16.0	8.8	89	.04	.03	.06	.10	.19	8.0	120	<4	260
7- 8-69	12.0	5.3	49	.04	.03	.66	.54	.17	12.8	<10	<5	130
7-24-69	22.0	4.3	49	.03	.02	1.05	.03	.34	12.5	<2	<2	62
8- 4-69	23.0	7.6	88	.03	.02	.56	.04	.07	8.5	<10	<2	31
8-18-69	23.5	7.6	90	.02	.02	.46	.18	.10	9.6	<5	<2	22
9- 2-69	24.0	8.2	97	.03	.01	.34	.06	.05	11.2	<2	<1	170
9-15-69	22.5	7.4	85	.04	.04	.39	.11	.00	14.8	<10	<2	23
9-30-69	18.0	8.0	84	.04	.03	.40	.18	.11	14.6	58	<2	1,400
10-13-69	17.5	8.8	90	.03	.02	.11	.05	.00	13.4	<2	<2	60
10-27-69	12.0	9.8	90	.06	.02	.26	.04	.09	-	3	7	200
11-10-69	10.0	10.2	91	.04	.04	.35	.12	.22	14.6	6	<2	-
11-26-69	7.0	11.5	96	.04	.03	.28	.02	.11	7.4	130	15	170
12-10-69	12.5	-	-	.05	.03	.12	.03	.14	10.4	111	<2	360

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Cleveland-Baldwin												
1- 8-69	0.0	14.3	98	.04	.02	.23	.07	.12	11.7	10	<5	10
1-21-69	0.0	14.2	97	.05	.04	.12	.08	.13	7.5	470	180	250
2--4-69	0.5	14.5	100	.06	.05	.59	.29	.24	9.0	<5	<5	45
2-18-69	0.0	14.6	100	.11	.08	.37	.09	.28	9.2	<5	<5	16
3- 4-69	0.0	13.6	93	.12	.09	.33	.21	.74	6.8	20	<2	49
3-18-69	1.0	14.4	101	.02	.00	.39	.21	.48	16.8	9	4	96
4- 1-69	2.0	13.9	100	.03	.02	.12	.06	.26	9.2	<5	<5	75
4-15-69	7.0	13.1	107	.01	.00	.24	.10	.28	8.4	160	20	240
4-28-69	9.0	11.0	94	.06	.04	.37	.07	.32	8.0	30	15	130
5-17-69	10.0	11.1	98	.03	.02	.61	.21	.20	5.9	10	1	32
5-26-69	12.2	10.5	98	.03	.02	.35	.27	.18	10.4	1,200	1,000	120
6-12-69	16.0	8.9	89	.10	.02	.26	.10	.22	5.0	40	<5	74
6-23-69	17.0	8.8	90	.03	.02	.25	.11	.21	8.8	240	<4	81
7- 8-69	17.8	7.5	78	.02	.02	.77	.05	.13	8.0	260	10	250
7-24-69	22.0	7.5	85	.03	.02	.94	.04	.22	12.9	25	5	1,000
8- 4-69	23.5	8.2	95	.02	.02	1.06	.06	.26	14.8	20	<2	220
8-18-69	23.5	7.7	90	.03	.01	.97	.17	.11	10.0	50	<2	69
9- 2-69	24.0	8.4	99	.03	.01	.54	.10	.06	11.2	<2	<1	40
9-15-69	22.0	7.7	87	.03	.02	.40	.18	.00	12.8	<5	<2	93
9-30-69	18.0	8.3	87	.46	.10	.43	.20	.06	11.1	30	<10	115
10-13-69	17.5	9.0	93	.03	.02	.19	.05	.00	11.5	2	<2	68
10-27-69	12.0	9.9	98	.11	.05	.26	.06	.12	-	2	<2	1,900
11-10-69	10.0	10.8	96	.06	.04	.30	.06	.10	12.9	2	<2	-
11-26-69	7.0	11.4	95	.08	.03	.26	.02	.10	9.6	40	33	210
12- 8-69	4.0	12.8	99	.05	.05	.27	.09	.20	14.8	4	4	350

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Cleveland-Nottingham												
1- 7-69	0.0	14.1	97	.05	.02	.36	.04	.18	14.8	20	<5	60
1-21-69	0.0	14.3	98	.03	.02	.19	.06	.11	11.1	35	<2	17
2- 4-69	0.0	14.4	99	.07	.04	.35	.49	.18	8.1	<5	<5	5
2-18-69	0.0	14.4	100	.11	.05	.22	.08	.30	8.5	<5	<5	24
3- 4-69	0.0	13.8	85	.12	.08	.30	.22	.48	6.8	<2	<2	54
3-18-69	1.3	15.5	109	.04	.02	-	-	.12	8.8	<1	<1	4
4- 1-69	2.0	13.9	100	.05	.03	.18	.16	.46	13.2	<5	<5	40
4-15-69	5.5	12.7	100	.04	.02	.34	.08	.34	9.5	<2	<2	88
4-28-69	9.0	11.0	94	.06	.04	.50	.08	.38	8.0	<1	<1	64
5-13-69	10.0	10.8	95	.05	.02	.53	.13	.26	5.2	<1	<1	4
5-26-69	10.0	0.2	2	-	-	.17	.25	.20	10.4	<1	<1	18
6-12-69	14.0	8.5	82	.02	.02	.15	.11	.16	4.2	<5	<5	33
6-23-69	12.0	7.1	65	.03	.03	.05	.09	.20	5.6	130	<2	34
7- 8-69	14.2	6.2	69	.03	.02	.69	.13	.10	8.8	25	<2	650
7-24-69	21.0	6.2	68	.03	.02	.65	.03	.14	15.4	<2	<2	8
8- 4-69	22.5	6.5	75	.02	.02	1.34	.10	.24	13.4	<5	<2	90
8-18-69	23.0	7.6	89	.03	.02	.33	.11	.05	6.7	<5	<2	45
9- 2-69	23.0	7.4	85	.04	.03	.13	.09	.00	16.2	<2	<2	5
9-15-69	22.0	7.7	87	.03	.03	.37	.13	.00	12.0	<1	<1	<2
9-30-69	18.0	9.3	97	.03	.02	.24	.00	.01	8.8	<2	<2	54
10-13-69	18.0	9.0	95	.04	.02	.46	.02	.03	13.4	<2	<2	28
10-27-69	12.5	10.0	93	.06	.02	.44	.05	.17	-	<2	<2	710
11-10-69	10.0	10.8	96	.08	.03	.32	.10	.08	9.0	2	2	-
11-26-69	8.0	11.5	98	.04	.03	.26	.02	.04	5.2	<3	<2	60
12- 8-69	5.0	12.7	101	.09	.05	.54	.06	.07	19.1	<2	<2	28

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Eastlake												
1- 7-69	0.0	14.1	97	.14	.06	.49	.46	.36	18.3	17,000	4,400	960
1-20-69	0.8	13.5	94	.15	.07	.45	.30	.17	9.8	10,000	3,500	950
2- 5-69	0.3	13.5	93	.50	.14	.47	.21	.24	3.6	2,200	100	460
2-19-69	0.0	13.8	94	.10	.08	.24	.26	.26	6.4	240	30	26
3- 3-69	0.6	12.5	86	.13	.13	.33	.21	.28	10.0	120	90	150
3-17-69	1.0	13.8	96	.08	.07	.11	.15	.24	8.8	7	<1	36
4- 1-69	2.5	13.0	95	.13	.08	.37	.35	.58	16.4	2,500	15	2,600
4-16-69	8.9	12.8	109	.09	.09	.86	.22	.40	13.7	400	72	170
4-28-69	11.7	10.3	94	.14	.08	.50	.20	.28	248.3	5,200	1,000	880
5-28-69	11.2	10.1	92	.05	.03	.15	.19	.20	7.5	140	21	200
6-10-69	13.3	8.2	78	.05	.04	.14	.14	.14	5.8	160	11	130
6-23-69	15.7	7.6	76	.03	.03	.13	.11	.18	5.6	160	29	470
7- 7-69	20.6	6.8	75	.07	.05	.60	.20	.18	10.0	200	110	1,500
7-22-69	22.0	8.5	99	.03	.02	.85	.21	.18	10.4	100	85	2,400
8- 7-69	24.5	9.9	116	.05	.04	.50	.04	.11	14.3	20	15	340
8-20-69	25.3	7.6	92	-	-	.20	.14	.00	9.2	1,600	240	120,000
9- 2-69	25.3	7.9	95	.05	.03	.56	.10	.00	10.8	60	3	170
9-15-69	22.5	8.9	101	.03	.03	.07	.59	.06	12.8	250	140	2,800
10- 2-69	18.0	8.9	93	.04	.04	.25	.05	.07	13.4	<40	<30	31,000
10-13-69	17.5	8.9	92	.07	.04	.56	.08	.01	11.5	5,400	640	2,600
10-29-69	11.0	10.2	91	.03	.03	.59	.09	.08	-	6,800	1,800	7,900
11-10-69	10.0	10.6	94	.06	.03	.57	.06	.18	13.7	310	50	-
11-26-69	7.0	12.0	100	.15	.06	.36	.26	.18	13.9	1,600	210	11,000
12- 8-69	3.1	12.2	175	.08	.03	.41	.21	.27	22.6	8,900	6,100	9,600

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Mentor												
1- 7-69	0.0	14.0	95	.13	.05	.31	.14	.25	13.3	11,000	4,100	500
1-21-69	0.0	13.7	94	.07	.07	.22	.13	.17	8.4	510	290	180
2- 4-69	0.0	13.8	94	.13	.10	.34	.22	.20	3.6	1,500	640	550
2-18-69	0.0	13.7	93	.08	.07	.19	.19	.16	8.1	<5	<5	40
3- 4-69	0.0	13.1	89	.12	.10	.22	.18	.26	7.6	3	<1	Spreader
3-18-69	1.0	15.9	110	.04	.03	.88	.06	.12	9.6	<1	<1	14
4- 1-69	2.5	13.4	98	.14	.08	.72	.34	.64	12.8	2,200	490	2,700
4-15-69	8.0	12.2	102	.06	.05	.52	.14	.40	11.8	10	<1	80
4-28-69	10.5	10.7	95	.07	.07	1.00	.30	.40	11.0	50	15	240
5-14-69	11.0	10.5	95	.04	.03	.46	.30	.80	5.9	650	80	480
5-28-69	11.2	10.1	92	.03	.02	.18	.24	.22	15.0	150	50	120
6-11-69	14.5	8.5	83	.03	.02	.17	.15	.22	9.2	63	<5	160
6-23-69	14.0	7.4	71	.04	.02	.16	.08	.15	6.4	570	<6	300
7- 7-69	12.5	-	-	.07	.02	.83	.29	.38	14.8	1,200	290	4,400
7-24-69	18.0	4.4	45	.04	.02	.66	.04	.32	10.0	60	12	540
8- 7-69	24.0	8.2	96	.03	.02	.81	.03	.10	12.1	330	30	480
8-20-69	24.5	8.2	98	.05	.04	.38	.52	.01	13.3	4,500	960	320,000
9- 4-69	23.0	3.9	45	.05	.03	.42	.30	.00	14.6	270	55	1,300
9-15-69	21.0	8.2	91	.05	.04	.52	..24	.10	12.0	90	<2	1,400
10- 2-69	18.0	8.5	89	.05	.03	.25	.05	.04	11.1	100	<4	7,600
10-15-69	16.0	7.8	78	.22	.04	.91	.07	.28	19.5	21,000	1,300	9,100
10-29-69	11.0	10.0	90	.06	.02	.03	.59	.08	-	1,400	400	1,600
11-10-69	10.0	10.6	94	.06	.03	.46	.00	.16	14.2	260	30	-
11-28-69	6.0	11.8	96	.01	.05	.08	.07	.14	12.6	900	190	12,000
12-10-69	3.5	12.1	92	.08	.06	.16	.10	.13	8.7	650	230	520
12-23-69	1.5	13.1	95	.11	.06	-	-	-	-	1,900	300	1,100

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Painesville												
1- 7-69	0.0	14.2	97	.04	.03	.11	.09	.13	10.5	200	95	500
1-21-69	0.0	13.7	94	.06	.05	.18	.12	.17	8.8	120	20	12
2- 4-69	0.0	13.6	93	.11	.08	.38	.24	.36	6.3	1,800	580	430
2-18-69	0.0	13.2	90	.10	.07	-	-	.16	7.4	<5	<5	51
3- 4-69	0.0	13.7	93	.11	.08	.36	.12	.20	6.0	5	<2	18
3-18-69	1.0	15.8	110	.02	.01	.26	.16	.14	10.0	<1	<1	16
4- 1-69	2.5	13.9	101	.20	.05	.66	.36	.76	13.6	5,200	610	1,700
4-15-69	8.0	13.3	110	.08	.03	.38	.20	.42	13.3	10	<1	65
4-28-69	11.0	10.2	92	.08	.07	.55	.43	.44	11.4	110	30	180
5-28-69	12.2	9.9	93	.05	.04	.06	.08	.22	7.9	40	17	110
6-11-69	15.3	8.5	84	.04	.02	.13	.15	.12	4.2	1,100	<5	480
6-23-69	15.0	7.9	78	.03	.03	.13	.13	.14	6.4	42	11	340
7- 7-69	19.5	7.0	76	.09	.03	.91	.21	.34	16.4	800	480	9,000
7-24-69	18.0	5.5	58	.05	.04	1.25	.33	.30	30.0	1,500	90	3,500
8- 7-69	24.0	7.9	94	.03	.02	1.06	.04	.09	13.4	120	10	Spreader
8-20-69	24.0	7.8	92	.05	.03	.10	.72	.03	10.4	300	20	5,500
9- 4-69	23.5	5.5	65	.05	.02	.17	.41	.03	15.8	90	<2	1,400
9-15-69	21.0	8.0	90	.07	.04	.39	.09	.09	11.2	110	<10	880
10- 2-69	18.0	9.0	95	.04	.02	.55	.07	.05	17.3	450	35	150,000
10-15-69	15.5	8.4	84	.04	.03	.44	.10	.19	14.9	1,600	560	3,000
10-29-69	11.0	10.8	97	.06	.02	-	.50	.03	-	2,100	410	4,900
11-10-69	10.0	10.5	94	.04	.03	.31	.21	.10	12.4	460	30	-
11-28-69	6.0	11.9	97	.11	.03	.31	.07	.20	8.7	2,500	340	12,000
12-10-69	3.5	12.6	96	.08	.05	.20	.05	.15	10.9	1,400	62	800
12-23-69	1.2	14.0	100	.11	.06	-	-	-	-	1,100	130	680

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Madison												
1- 7-69	0.0	14.1	96	.08	.02	.77	.33	.29	17.9	580	160	170
1-21-69	0.0	13.9	95	.05	.03	.45	.05	.18	11.5	20	<2	8
2- 4-69	0.0	13.0	88	.20	.10	.42	.30	.24	9.0	250	120	340
2-18-69	0.0	13.8	94	.09	.06	.20	.26	.20	5.5	30	<5	24
3- 4-69	1.0	14.0	98	.07	.06	.67	.07	.10	6.4	<5	<5	23
3-18-69	1.0	16.4	114	.04	.02	.52	.06	.16	13.2	<1	<1	6
4- 2-69	2.5	13.5	98	.12	.02	-	.55	.80	15.6	210	60	920
4-15-69	6.0	13.9	1 0	.04	.03	.05	.15	.34	7.2	<1	<1	50
4-28-69	10.5	10.7	95	.09	.03	.59	.19	.42	12.1	<1	<1	96
5-14-69	13.0	10.0	95	.14	.05	.18	.38	.38	15.4	580	55	210
5-28-69	10.2	9.9	87	.03	.03	.07	.09	.26	8.3	10	<1	Spreader
6-11-69	17.0	8.3	85	.04	.02	.40	.08	.12	9.2	<10	<10	Spreader
6-23-69	13.0	6.5	61	.06	.03	.19	.13	.20	8.6	<2	<2	190
7- 7-69	15.0	6.0	59	.09	.02	.90	.10	.16	11.2	400	40	690
7-24-69	16.5	6.3	64	-	-	.61	.30	.08	7.5	<2	<2	70
8- 7-69	23.0	5.8	66	.04	-	.57	.03	.10	14.8	28	<2	150
8-19-69	24.0	7.6	90	.06	.03	.29	.15	.03	14.6	<10	<10	250,000
9- 4-69	22.0	2.4	26	.09	.04	.52	.66	.07	15.0	20	<2	4,600
9-15-69	21.0	8.9	100	.06	.02	.21	.05	.00	16.4	56	<1	710
10- 2-69	18.0	8.7	91	.04	.02	.25	.15	.00	15.0	<3	<2	11,000
10-15-69	15.5	8.7	92	.06	.02	.47	.07	.05	18.0	700	20	10,000
10-29-69	10.5	10.2	90	.03	.02	.26	.06	.04	-	360	32	5,800
11-10-69	10.0	10.6	94	.03	.02	.13	.11	.02	12.9	210	8	-
11-28-69	6.0	11.8	96	.12	.03	.04	.10	.15	11.8	7,000	500	8,300
12-10-69	12.5	-	-	.06	.05	.23	.05	.13	10.0	350	8	180
12-23-69	1.3	13.9	100	.14	.07	-	-	-	-	770	16	670

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Ashtabula												
1- 7-69	0.0	14.5	99	.12	.05	.30	.05	.21	15.2	-	-	-
1-21-69	0.0	13.2	90	.07	.06	.08	.07	.14	7.3	<5	<2	10
2- 4-69	0.5	14.4	100	.14	.09	.46	.24	.14	4.0	60	40	70
2-18-69	0.0	14.4	99	.11	.05	.11	.13	.08	5.8	<2	<2	10
3- 4-69	1.0	15.2	106	.09	.06	.39	.11	.10	9.6	8	5	16
3-18-69	0.5	15.9	110	-	-	.12	.04	.10	-	45	10	30
4- 1-69	2.0	14.0	100	.23	.05	.58	.30	.74	16.4	120	40	340
4-15-69	6.0	13.5	107	.05	.05	.51	.13	.56	5.3	<2	<2	96
4-28-69	9.5	11.5	100	.10	.02	.52	.04	.36	9.9	20	<1	64
5-14-60	11.0	10.6	95	.07	.05	.16	.12	.26	6.6	81	15	100
5-28-69	10.0	9.8	86	.03	.02	.09	.13	.24	8.3	20	<5	48
6-11-69	13.5	8.3	80	.04	.03	.12	.18	.10	5.0	<1	<1	24
6-23-69	12.0	6.8	63	.07	.03	.14	.16	.13	13.2	94	<2	220
7- 7-69	11.5	6.5	59	.07	.02	.63	.07	.11	11.8	400	12	900
7-24-69	15.0	5.6	55	.02	.02	.72	.04	.08	6.7	<5	<2	130
8- 6-69	24.0	7.6	90	.02	.02	.69	.03	.06	9.9	7	<2	110
8-20-69	24.0	8.0	95	.06	.02	.29	.15	.00	7.9	110	<2	84,000
9- 4-69	21.0	4.1	44	.04	.03	.13	.55	.00	10.4	<5	<2	160
9-15-69	20.5	9.1	100	.04	.02	.04	.14	.00	17.2	<10	<1	290
10- 2-69	17.0	9.3	95	.02	.02	.05	.15	.00	16.1	<4	<2	180
10-15-69	15.0	9.2	90	.07	.03	.23	.17	.00	18.8	5,100	360	1,500
10-29-69	11.0	10.1	90	.05	.02	.18	.04	.05	-	110	18	190
11-10-69	10.0	10.4	93	.04	.02	.35	.05	.04	10.7	230	46	-
11-28-69	6.0	12.0	97	.07	.06	.17	.01	.11	7.4	260	60	670
12-10-69	3.5	12.3	94	.05	.05	.12	.02	.02	8.7	230	36	250
12-23-69	1.5	13.9	100	.10	.05	-	-	-	-	640	62	740

TABLE 5 (Concluded)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH_3 N	NO_3 N	COD	T. Coli org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Conneaut												
1- 6-69	2.0	14.3	103	.07	.04	.22	.18	.26	12.1	500	240	290
1-20-69	0.0	13.6	93	.07	.04	.37	.13	.24	7.9	4,400	1,800	360
2- 4-69	0.0	14.1	97	.08	.07	-	-	.12	5.4	30	20	75
2-17-69	0.0	14.0	96	.11	.07	.21	.19	.08	2.7	45	31	15
3- 3-69	0.0	14.2	97	.09	.07	.52	.24	.18	8.4	<1	<1	7
3-17-69	1.0	15.0	105	.04	.02	.25	.05	.14	7.2	290	120	47
4- 1-69	2.0	14.1	101	.15	.05	.31	.25	.42	12.4	25	10	110
4-15-69	7.0	13.4	110	.07	.04	.41	.19	.72	9.1	100	<5	82
4-28-69	10.0	11.2	98	.07	.03	.98	.08	.58	6.4	20	5	120
5-14-69	10.8	11.1	99	.08	.01	.36	.10	.32	6.6	60	<5	110
5-28-69	11.9	10.6	97	.01	.01	.07	.05	.24	6.7	10	5	20
6-11-69	14.9	8.3	82	-	-	.24	.16	.18	5.0	12	<1	12
6-23-69	12.0	8.0	73	.03	.03	.17	.09	.12	6.0	<2	<2	29
7- 7-69	18.5	7.8	83	.06	.03	.63	.05	.19	-	<10	3	610
7-24-69	15.0	6.6	65	.02	.02	.50	.08	.08	7.1	<2	<2	18
8- 6-69	24.0	7.5	89	.02	-	.23	.03	.02	9.0	<5	<2	44
8-20-69	23.5	7.8	90	.05	.02	.26	.18	.00	8.7	<10	<2	5,000
9- 4-69	24.0	6.3	75	.03	.01	.78	.00	.00	9.6	<5	<5	630
9-15-69	20.0	8.5	93	.04	.02	.20	.07	.00	16.0	<10	<1	55
10- 2-69	17.0	9.5	97	.02	.01	.36	.04	.00	15.7	<4	<2	460
10-15-69	15.0	9.0	88	.03	.02	.15	.11	.00	14.9	12	<2	250
10-29-69	11.0	9.5	90	.04	.02	.29	.15	.12	-	<2	<2	1,100
11-10-69	10.0	10.5	94	.03	.03	.21	.07	.04	12.0	276	28	-
11-28-69	5.5	12.1	97	.07	.03	.25	.12	.21	10.9	175	12	510
12-10-69	3.5	12.8	98	.04	.03	.30	.01	.14	7.0	530	160	280
12-23-69	1.0	14.1	100	.10	.05	-	-	-	-	500	220	620

TABLE 6

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER [illegible]
mg/l

		CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
Toledo	E-0301										
1-20-69		0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
3-18-69		0.00	0.04	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.14
5-12-69		0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
7-8-69		0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.13
9-4-69		0.00	0.05	0.00	0.02	0.04	0.03	0.01	0.00	0.13	0.11
10-30-69		0.00	0.10	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.12
12-22-69		0.00	0.40	0.00	0.41	0.00	0.02	0.00	0.00	0.00	0.18
Port Clinton	C-0704										
1-21-69		0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
3-18-69		0.00	0.24	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.12
5-12-69		0.00	0.16	0.00	0.25	0.00	0.03	0.00	0.00	0.00	0.17
7-8-69		0.00	0.18	0.00	0.54	0.00	0.08	0.00	0.00	0.00	0.21
9-4-69		0.00	0.02	0.00	0.02	0.01	0.00	0.00	0.00	0.13	0.14
10-30-69		0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.14
12-22-69		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Sandusky	B-1101										
1-21-69		0.00	0.14	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.12
3-18-69		0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.11
5-12-69		0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
7-8-69		0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.15
9-4-69		0.00	0.05	0.00	0.01	0.07	0.02	0.01	0.00	0.19	0.13
10-30-69		0.00	0.10	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.13
12-22-69		0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.14

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

		CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
Huron	A-1204										
1-21-69		0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
3-18-68		0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.10
5-12-69		0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
7-9-69		0.00	0.02	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.13
9-4-69		0.00	0.02	0.00	0.02	0.02	0.03	0.00	0.00	0.18	0.12
10-30-69		0.00	0.04	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.13
12-22-69		0.00	0.20	0.00	0.35	0.00	0.08	0.00	0.00	0.00	0.14
Vermilion	B-1404										
1-21-69		0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
3-18-69		0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.11
5-12-69		0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
9-4-69		0.00	0.02	0.00	0.01	0.03	0.03	0.00	0.00	0.13	0.13
10-30-69		0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.13
12-22-69		0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.14

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

		CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
Elyria	B-1606										
1-21-69		0.00	0.14	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.13
3-19-69		0.00	0.09	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.14
5-13-69		0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
7-9-69		0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.13
9-4-69		0.00	0.04	0.00	0.13	0.01	0.05	0.00	0.00	0.19	0.13
10-30-69		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
12-22-69		0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.14
Lorain	B-1605										
1-21-69		0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
3-19-69		0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
5-13-69		0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.11
7-7-69		0.00	0.09	0.00	0.04	0.00	0.02	0.00	0.00	0.00	0.11
9-4-69		0.00	0.02	0.00	0.03	0.03	0.01	0.01	0.00	0.22	0.13
10-30-69		0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.13
12-22-69		0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.13

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
Avon Lake C-1801										
1-22-69	0.00	0.06	0.00	0.01	0.00	0.10	0.00	0.00	0.00	0.12
3-19-69	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.11
5-13-69	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
7-7-69	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.10
9-4-69	0.00	0.03	0.00	0.01	0.01	0.03	0.01	0.00	0.22	0.15
10-30-69	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
12-22-69	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.13
Cleveland Crown C-2001										
1-23-69	0.00	0.07	0.00	0.01	0.00	0.10	0.00	0.00	0.00	0.00
3-19-69	0.00	0.08	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.25
5-13-69	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.10	0.12
7-7-69	0.00	0.06	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00
9-4-69	0.00	0.06	0.00	0.02	0.03	0.04	0.01	0.00	0.25	0.13
10-29-69	0.00	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.13
12-22-69	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.11
Cleveland Division C-2103										
1-21-69	0.00	0.04	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.14
3-18-69	0.00	0.07	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.13
5-13-69	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.29	0.11
7-8-69	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
9-4-69	0.00	0.07	0.00	0.17	0.01	0.01	0.00	0.00	0.27	0.13
10-29-69	0.00	0.38	0.00	1.02	0.01	0.12	0.02	0.00	0.40	0.14
12-23-69	0.00	0.07	0.00	0.09	0.02	0.00	0.00	0 00	0.00	0.14

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
Cleveland Baldwin C-2104										
1-21-69	0.00	0.08	0.00	0.01	0.00	0.10	0.00	0.00	0.00	0.13
3-18-69	0.00	0.45	0.00	0.69	0.00	0.22	0.00	0.00	0.56	0.13
5-13-69	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
7-8-69	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.12
9-4-69	0.00	0.02	0.00	0.02	0.01	0.00	0.00	0.00	0.25	0.13
10-29-69	0.00	0.20	0.00	0.19	0.00	0.09	0.01	0.00	0.00	0.14
12-23-69	0.00	0.05	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.14
Cleveland Nottingham D-2301										
1-21-69	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
3-18-69	0.00	0.18	0.00	0.55	0.00	0.22	0.00	0.00	0.56	0.13
5-13-69	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11
7 8-69	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.11
9-4-69	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.23	0.12
10-27-69	0.00	0.04	0.00	0.13	0.01	0.00	0.00	0.00	0.10	0.14
12-23-69	0.00	0.03	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.13
Mentor O.W.S. E-2601										
1-21-69	0.00	0.05	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.15
3-18-69	0.00	0.17	0.00	0.16	0.00	0.10	0.00	0.00	0.05	0.13
5-14-69	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.14
7-7-69	0.00	0.39	0.00	0.83	0.00	0.01	0.00	0.00	0.00	0.15
9-4-69	0.00	0.03	0.00	0.02	0.00	0.01	0.00	0.00	0.22	0.14
10-29-69	0.00	0.14	0.00	0.22	0.00	0.04	0.01	0.00	0.00	0.15

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC AND FLUORIDE
WATER INTAKES
mg/l

		CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
Painesville	F-2718										
1-21-69		0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.13
3-18-69		0.00	0.56	0.00	0.22	0.00	0.11	0.00	0.00	0.10	0.12
7-7-69		0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.14
9-4-69		0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.21	0.12
10-29-69		0.00	0.29	0.00	0.25	0.01	0.14	0.00	0.00	0.10	0.16
Madison O.W.S.	G-3001										
1 21-69		0.00	0.16	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.13
3-18-69		0.00	0.17	0.00	0.61	0.00	0.18	0.00	0.00	0.00	0.12
5-14-69		0 00	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.14
7-7-69		0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.001	0.00	0.13
9-4-69		0.00	0.18	0.00	0.24	0.02	0.02	0.00	0.00	0.26	0.13
10-29-69		0.00	0.28	0.00	0.25	0.00	0.12	0.00	0.00	0.00	0.13
Ashtabula	G-3303										
1-21-69		0.00	0.05	0.00	0.01	0.00	0.10	0.00	0.00	0.00	0.12
3-18-69		0.00	0.12	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.13
5-14-69		0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
7-7-69		0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.12
9-4-69		0.00	0.02	0.00	0.01	0.00	0.02	0.01	0.00	0.22	0.12
10-29-69		0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.13
12-23-69		0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.12

TABLE 6 (Concluded)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

		CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
Conneaut	H 3605										
1-20-69		0.00	0.04	0.00	0.08	0.00	0.10	0.00	0.00	0.00	0.11
3-17-69		0.00	0.00	0.00	0.01	0.00	0.05	0.00	0.00	0.00	0.12
5-14-69		0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.12
7-7-69		0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.12
9-4-69		0.00	0.01	0.00	0.02	0.00	0.00	0.01	0.00	0.23	0.12
10-29-69		0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.14
12-23-69		0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.13

TABLE 7

WATER INTAKE STUDY

PLANKTON

Toledo (E-03-01)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml.
1-8-69	1,242	18	54	-	-	-	-	-	1,314
1-14-69	684	558	54	18	-	18	-	-	1,332
1-20-69	1,702	185	111	-	-	-	-	-	1,998
1-28-69	999	296	37	-	-	-	-	-	1,332
2-3-69	150	135	15	15	-	-	-	-	315
2-11-69	242	198	22	-	-	-	22	-	484
2-17-69	187	99	11	-	-	-	-	-	297
2-25-69	962	185	37	-	-	-	-	-	1,184
3-4-69	3,212	264	-	-	-	-	88	88	3,652
3-11-69	902	484	-	-	-	-	-	-	1,386
3-18-69	9,324	333	148	-	-	-	37	37	9,879
3-25-69	11,507	1,295	222	-	-	-	37	37	13,098
4-1-69	1,848	352	-	-	-	-	132	132	2,464
4-8-69	1,276	308	44	-	-	-	132	-	1,760
4-17-69	660	616	-	-	-	44	44	-	1,364
4-22-69	1,586	704	44	-	-	-	132	88	2,554
4-28-69	1,073	666	37	-	-	37	-	-	1,813
5-6-69	792	616	220	-	-	-	-	-	1,628
5-12-69	1,517	333	259	-	-	-	74	-	2,183
5-27-69	704	176	704	-	44	220	88	-	1,936
6-10-69	4,033	518	1,776	-	-	37	629	-	6,993
6-23-69	999	222	1,517	-	-	222	37	-	2,997
7-8-69	286	154	264	-	-	-	22	-	726
7-21-69	220	-	77	-	-	-	-	11	308
8-4-69	198	-	132	-	66	242	22	22	660
8-19-69	495	15	165	15	30	-	30	60	810
9-2-69	216	-	72	-	558	1,818	126	-	2,790
9-15-69	195	30	195	-	15	180	180	-	795
9-30-69	176	110	308	88	264	550	-	-	1,496
10-16-69	442	74	699	-	37	1,067	74	-	2,392
10-30-69	258	92	221	110	-	129	37	-	846
11-14-69	432	410	151	-	-	22	-	-	1,015
11-26-69	267	55	36	-	-	-	-	-	358
12-11-69	850	407	185	-	37	74	111	-	1,664
12-22-69	2,246	389	172	-	43	86	-	-	2,936

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Port Clinton (Station C-0704)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml.
1-7-69	6,292	88	132	-	-	-	—	-	6,512
1-8-69	3,402	36	198	-	-	-	18	-	3,654
1-21-69	1,134	144	18	18	-	-	18	-	1,332
1-28-69	900	162	72	-	-	-	36	-	1,170
2-4-69	1,364	660	44	-	-	-	-	-	2,068
2-11-69	88	110	22	-	-	-	-	-	220
2-18-69	192	84	12	-	-	-	12	-	300
2-25-69	276	84	12	-	-	-	72	-	444
3-4-69	7,585	296	37	-	-	-	37	-	7,955
3-11-69	18,463	11,470	185	37	-	-	-	-	30,155
3-18-69	13,024	836	44	-	-	-	44	-	13,948
3-25-69	8,184	1,504	-	-	44	44	88	-	9,864
4-1-69	2,772	616	44	-	-	-	132	44	3,606
4-8-69	2,112	352	44	-	-	-	88	-	2,596
4-17-69	972	360	108	-	-	-	18	18	1,476
4-28-69	60	60	75	-	-	-	45	-	240
5-6-69	3,589	1,554	259	-	-	74	-	-	5,476
5-12-69	2,420	528	352	-	-	-	132	-	3,432
5-27-69	143	66	66	11	55	11	33	-	385
6-10-69	4,224	308	704	-	44	132	176	-	5,588
6-23-69	774	108	630	-	-	-	144	-	1,656
7-8-69	440	110	-	44	-	-	44	-	638
8-19-69	55	66	143	-	44	-	99	-	377
9-15-69	30	-	195	-	90	240	60	-	615
9-30-69	180	-	216	18	36	36	36	-	522
10-2-69	258	37	92	-	-	37	18	-	442
10-16-69	346	367	259	22	43	22	43	-	1,102
10-30-69	518	86	475	43	2,074	605	43	-	3,845
11-14-69	257	92	514	18	-	18	36	18	953
11-26-69	644	221	221	-	-	-	74	-	1,160
12-11-69	2,395	332	333	-	-	37	-	-	3,097
12-22-69	2,376	184	166	-	-	-	18	18	2,762

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Sandusky (Station B-1101)

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml.
1-7-69	54	18	72	-	-	-	18	-	162
1-14-69	33	33	66	-	-	-	11	-	143
1-21-69	264	198	22	-	-	-	-	-	484
1-28-69	342	90	54	18	-	-	-	-	504
2-4-69	360	396	-	-	-	-	18	-	774
2-11-69	396	252	18	-	-	-	-	-	666
2-18-69	45	117	36	-	-	-	27	-	225
2-25-69	45	240	45	-	-	-	-	-	330
3-4-69	2,024	264	132	-	-	-	264	220	2,904
3-11-69	1,739	296	185	-	-	-	37	-	2,257
3-18-69	22	396	110	-	22	-	22	22	594
3-25-69	1,036	1,221	259	-	-	-	185	37	2,738
4-1-69	4,810	888	185	-	-	-	-	37	5,920
4-8-69	44	462	110	22	-	-	22	22	662
4-17-69	348	252	216	-	-	-	48	12	876
4-22-69	88	484	66	-	22	-	22	22	616
4-28-69	180	204	72	-	-	-	-	24	480
5-6-69	1,134	342	414	-	-	-	144	-	2,034
5-12-69	836	352	88	-	44	-	44	-	1,364
5-27-69	572	352	1,232	-	220	440	44	-	2,860
6-9-69	180	84	72	-	-	-	24	-	360
6-23-69	300	84	144	-	-	12	12	-	552
7-8-69	360	108	72	-	-	-	-	-	540
7-21-69	22	-	22	-	-	-	-	11	55
8-4-69	209	-	164	11	-	-	11	-	395
8-20-69	396	682	308	-	88	22	484	-	1,980
9-2-69	55	33	44	-	11	-	88	-	231
9-15-69	270	-	315	-	-	1,035	-	-	1,620
9-30-69	108	108	144	-	-	828	102	-	1,290
10-16-69	281	108	302	-	-	432	-	22	1,145
10-30-69	734	43	216	130	-	346	-	-	1,469
11-14-69	184	202	256	18	-	55	55	-	770
11-26-69	194	28	90	-	-	18	9	-	339
12-11-69	921	203	202	-	-	-	-	-	1,326
12-22-69	1,123	259	258	43	-	43	-	-	1,726

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Huron (Station A-1204)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml.
1-7-69	108	36	90	-	-	-	18	-	252
1-15-69	81	108	81	27	-	-	-	81	378
1-21-69	77	44	11	-	-	-	-	-	132
1-27-69	276	48	72	-	-	-	-	-	396
2-4-69	270	306	54	-	-	-	-	18	648
2-8-69	84	72	36	-	-	-	36	-	228
2-11-69	198	88	44	-	-	-	-	-	330
2-18-69	84	72	36	-	-	-	36	-	1,228
2-24-69	60	300	-	-	-	-	-	-	360
3-4-69	2,024	352	264	-	-	-	44	44	2,728
3-10-69	1,716	616	-	-	-	-	88	-	2,420
3-18-69	1,892	1,276	44	-	-	-	132	176	3,520
3-24-69	220	770	22	-	-	-	-	66	1,078
4-1-69	220	880	176	-	-	-	-	44	1,320
4-7-69	414	738	54	-	-	-	-	54	1,260
4-17-69	66	418	66	-	22	-	22	22	616
4-22-69	240	216	24	-	-	36	-	36	552
4-28-69	312	120	60	-	-	-	12	12	516
5-5-69	418	176	44	-	-	22	-	-	660
5-12-69	506	242	176	-	22	22	44	-	1,012
5-27-69	77	77	110	-	-	11	-	-	275
6-9-69	60	72	108	-	-	-	12	-	252
6-23-69	99	63	63	-	-	-	54	-	279
7-9-69	66	44	44	-	-	-	-	-	154
7-22-69	27	18	54	-	-	-	-	117	216
8-4-69	99	-	121	-	-	-	-	-	220
8-19-69	506	484	198	22	88	-	242	22	1,562
9-2-69	240	45	330	15	75	15	165	-	885
9-15-69	180	-	225	-	-	2,160	-	-	2,565
9-30-69	198	44	88	-	44	616	-	-	990
10-16-69	346	43	173	43	-	259	65	-	929
10-30-69	194	43	108	-	-	410	22	-	778
11-14-69	283	148	319	24	-	37	12	-	823
11-26-69	159	49	73	-	-	-	37	-	318
11-26-69	55	46	36	-	-	-	9	-	146
12-11-69	497	238	390	44	130	-	-	-	1,299
12-22-69	1,555	-	345	43	43	-	-	-	1,986

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Vermilion (B 14 04)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml.
1- 7-69	144	36	144	-	-	-	54	18	396
1-14-69	204	36	132	12	-	-	-	-	384
1-21-69	33	33	-	-	11	-	-	-	77
1-28-69	121	77	-	-	-	-	-	-	198
2- 4-69	198	330	-	-	-	-	-	-	528
2-11-69	105	180	30	-	-	-	60	-	375
2-18-69	33	77	22	-	-	-	-	-	132
2-25-69	132	154	132	-	-	22	-	-	440
3- 4-69	638	484	132	-	-	-	110	-	1364
3-11-69	748	528	44	-	-	-	11	-	1331
3-18-69	1188	378	450	-	-	-	72	-	2085
3-25-69	66	1210	66	-	-	-	110	-	1452
4- 1-69	616	748	-	-	-	-	88	-	1452
4- 8-69	22	220	88	-	-	-	44	22	396
4-17-69	174	110	220	-	-	-	66	44	614
4-22-69	22	132	66	22	-	-	110	88	440
4-28-69	486	234	72	-	-	-	36	72	900
5- 6-69	1188	360	180	-	-	-	54	-	1782
5-12-69	1961	481	185	37	-	-	37	-	2701
5-27-69	165	45	120	-	15	-	-	-	345
6- 9-69	63	72	90	-	-	-	-	-	225
6-23-69	171	90	63	-	-	-	36	-	360
7-22-69	99	18	27	-	-	-	9	-	153
8- 7-69	660	88	440	-	-	44	88	-	1320
8-14-69	66	858	330	-	198	-	616	-	2068
9- 2-69	75	105	195	-	15	90	195	-	675
9-14-69	126	-	288	-	54	90	126	-	684
9-30-69	36	-	324	-	18	18	18	-	414
10-16-69	294	92	129	-	92	386	55	-	1049
10-30-69	294	-	147	-	-	184	18	-	644
11-14-69	202	101	762	14	43	57	-	-	1179
11-26-69	138	28	36	-	-	9	-	-	211
12-11-69	864	302	388	-	43	86	-	-	1683
12-22-69	755	203	220	18	-	-	-	-	1196

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Elyria (B 16 06)

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml.
1- 7-69	162	90	180	-	-	-	36	-	468
1-14-69	88	66	77	11	11	11	-	33	297
1-21-69	55	-	66	--	11	-	-	11	143
1-28-69	66	22	22	-	11	-	11	-	132
2- 4-69	156	144	84	-	--	12	12	-	408
2-11-69	11	11	-	-	-	-	-	-	22
2-18-69	306	270	90	-	-	-	18	18	702
2-25-69	105	225	75	-	-	-	-	15	420
3- 4-69	198	252	144	-	-	-	126	-	720
3-11-69	132	154	44	-	-	-	44	-	374
3-19-69	135	420	30	-	-	-	15	15	615
3-25-69	342	900	198	-	-	-	162	-	1602
4- 2-69	110	462	198	-	22	-	-	-	792
4- 8-69	925	629	296	-	-	-	37	37	1924
4-16-69	66	88	66	-	-	-	198	44	462
4-22-69	110	132	66	-	22	-	88	176	594
4-29-69	396	198	18	-	-	18	-	90	720
5- 6-69	418	66	154	-	22	-	44	-	704
5-13-69	572	66	88	-	-	-	22	22	770
5-27-69	110	66	55	-	-	11	22	-	264
6- 9-69	63	54	45	-	-	-	9	-	171
6-23-69	117	36	63	9	-	-	153	-	378
7- 9-69	36	27	54	-	-	-	9	-	126
7-22-69	154	-	33	-	-	-	-	-	187
8- 7-69	160	16	288	-	32	96	-	-	592
8-20-69	88	1342	198	44	-	22	198	-	1892
9- 3-69	27	27	81	-	-	-	108	-	243
9-15-69	120	15	270	-	75	150	105	15	750
9-30-69	154	44	198	-	33	-	77	-	506
10-16-69	216	72	108	-	54	216	72	-	738
10-30-69	216	11	65	-	11	65	43	-	410
11-13-69	12	234	123	12	-	49	24	-	454
11-24-69	193	46	119	28	-	64	36	-	486
12-11-69	475	130	260	22	86	22	-	-	995
12-22-69	821	216	215	-	129	-	-	-	1381

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Lorain (B 16 05)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml.
1- 7-69	252	72	162	-	-	-	18	-	504
1-14-69	22	44	33	-	-	11	-	-	110
1-21-69	63	108	72	-	-	-	18	-	261
1-28-69	286	132	88	-	-	-	44	-	550
2- 4-69	216	360	90	-	-	-	36	-	702
2-11-69	96	192	84	-	-	-	24	-	396
2-18-69	180	306	180	-	-	-	90	54	810
2-25-69	144	468	90	-	-	-	36	-	738
3- 4-69	132	880	88	-	-	-	44	-	1144
3-11-69	288	594	72	-	-	-	90	18	1062
3-19-69	360	450	162	-	-	-	54	-	1026
3-25-69	222	1110	222	-	37	37	185	74	1887
4- 2-69	132	1012	88	-	-	-	132	44	1408
4- 8-69	666	703	222	-	-	-	-	-	1591
4-16-69	90	90	90	-	-	-	180	15	465
4-22-69	154	132	22	-	-	-	22	44	374
4-29-69	165	75	30	-	-	-	45	120	435
5- 6-69	704	176	66	-	-	-	44	-	990
5-13-69	1100	220	88	-	44	44	44	-	1540
5-27-69	88	88	66	-	11	-	-	-	253
6- 9-69	198	99	90	9	-	-	-	9	405
6-24-69	144	24	36	-	-	-	180	-	384
7- 7-69	198	54	90	-	-	-	18	18	378
8- 7-69	176	64	288	-	32	160	96	-	816
8-20-69	75	570	225	-	75	45	360	-	1350
9- 3-69	9	27	108	-	-	18	135	-	297
9-30-69	198	36	198	-	-	90	90	-	612
10-16-69	259	43	86	-	-	259	130	22	799
10-30-69	120	9	64	-	-	55	46	-	294
11-12-69	320	74	111	-	-	87	-	-	592
11-24-69	245	43	100	14	-	72	-	-	474
12-11-69	562	108	238	-	22	-	22	22	974
12-22-69	234	221	60	12	-	24	-	-	551

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Avon Lake (C 18 01)

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml.
1- 7-69	162	36	72	-	-	-	-	-	270
1-13-69	44	22	33	-	-	-	-	-	99
1-22-69	22	44	44	-	11	-	-	-	121
1-28-69	216	54	54	14	-	-	41	14	393
2- 5-69	110	330	22	22	-	-	-	-	484
2-10-69	11	77	11	-	-	-	22	-	121
2-19-69	81	27	72	18	-	-	-	-	198
2-25-69	72	204	108	-	-	-	72	-	456
3- 5-69	306	162	36	-	-	-	108	18	630
3-12-69	44	209	33	-	-	-	22	-	308
3-19-69	66	143	11	-	-	-	33	11	264
3-25-69	450	990	72	-	-	-	126	-	1638
4- 2-69	22	572	110	-	-	-	44	22	770
4- 9-69	594	612	234	-	-	-	90	54	1584
4-16-69	66	132	110	-	-	-	132	66	506
4-22-69	450	192	144	-	-	-	72	18	876
4-29-69	180	135	60	-	-	-	15	60	450
5- 5-69	1512	198	324	-	-	-	36	-	2070
5-13-69	396	154	66	-	-	-	22	22	660
5-27-69	150	-	240	-	-	-	-	-	390
6- 9-69	153	126	72	-	-	-	-	-	351
6-24-69	99	22	33	-	11	-	11	-	176
7- 7-69	99	54	90	9	-	-	-	-	252
8- 7-69	-	9	27	9	-	-	-	-	45
8-20-69	220	902	616	22	110	22	616	-	2498
9- 3-69	66	110	374	-	-	-	374	-	924
9-30-69	88	55	187	-	-	99	44	-	473
10-16-69	99	121	143	-	22	44	11	-	440
10-30-69	194	43	86	22	626	86	22	-	1080
11-10-69	216	86	101	-	43	173	86	706	706
11-24-69	97	76	77	-	-	76	-	22	348
12-11-69	324	108	130	-	22	66	-	-	650
12-22-69	258	101	82	9	-	-	-	-	450

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Crown (C 20 01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml.
1- 7-69	198	18	180	-	-	-	36	-	432
1-23-69	95	54	150	-	-	-	108	-	406
2- 4-69	360	270	90	-	-	-	-	-	720
2- 5-69	77	132	22	22	-	-	11	-	264
2-18-69	33	121	44	-	-	22	11	-	231
2-19-69	132	72	84	-	-	-	24	-	312
3- 5-69	60	132	96	-	-	-	36	-	324
3-11-69	270	342	90	36	-	-	-	-	738
3-19-69	135	120	75	-	-	-	30	-	360
3-29-69	22	162	44	-	22	-	-	22	572
4- 2-69	738	594	90	-	-	-	72	-	1494
4- 8-69	378	360	414	-	-	-	108	36	1296
4-16-69	33	11	77	-	-	-	44	22	187
4-22-69	176	220	22	-	-	-	88	44	550
4-29-69	480	72	72	-	12	24	12	12	684
5-13-69	345	90	75	-	15	15	-	-	540
5-21-69	44	66	55	-	11	11	11	-	198
5-26-69	44	66	55	-	11	11	11	-	198
6- 9-69	90	27	72	-	-	-	9	-	198
6-24-69	11	-	22	22	-	-	33	-	88
7- 7-69	264	108	72	60	-	-	-	-	504
7-24-69	54	-	18	18	-	-	-	-	90
8- 7-69	-	-	18	27	-	-	-	-	45
8-18-69	-	11	55	-	-	66	11	-	143
9- 3-69	33	33	209	-	44	22	99	-	440
9-15-69	44	11	231	-	-	44	77	-	407
9-30-69	121	33	132	-	11	-	66	-	363
10-15-69	121	33	99	-	-	11	77	-	341
10-29-69	158	29	259	-	19	115	43	-	624
11-10-69	302	29	128	-	-	28	29	-	516
11-25-69	246	25	24	12	-	37	-	-	344
12-10-69	166	9	82	18	55	18	-	-	348
12-22-69	1166	216	172	-	173	173	-	-	1900

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Division (C 21 03)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml.
1- 7-69	162	18	99	-	-	-	18	-	297
1- 8-69	33	55	-	-	-	-	-	-	88
1-14-69	162	45	36	-	-	-	36	-	279
1-21-69	88	44	33	-	-	-	44	-	209
1-28-69	774	108	108	-	-	-	18	-	1008
2- 4-69	242	176	88	-	-	-	44	-	550
2-11-69	108	378	72	-	-	-	54	-	612
2-18-69	66	66	66	-	-	-	-	-	198
2-25-69	240	120	132	-	-	-	48	24	564
3- 4-69	220	242	22	-	-	-	66	22	572
3-11-69	96	228	72	-	-	-	48	-	444
3-17-69	702	72	180	-	-	-	144	-	1098
3-25-69	198	110	55	-	-	-	44	-	407
4- 1-69	3	97	2	-	-	-	-	-	72
4- 8-69	-	352	66	-	-	-	-	-	418
4-15-69	504	162	324	-	-	-	90	18	1098
4-22-69	360	468	270	-	-	-	144	144	1386
4-28-69	444	96	60	-	-	-	12	24	636
5-13-69	972	162	144	-	-	-	36	-	1314
5-26-69	44	-	22	-	11	-	11	-	88
6-13-69	-	-	9	-	-	-	9	-	18
6-23-69	-	-	9	-	-	-	45	-	54
7- 8-69	45	105	75	75	-	-	-	-	300
7-24-69	18	9	36	-	9	-	-	9	81
8- 4-69	-	-	55	44	-	-	11	-	110
8-18-69	11	-	88	11	22	33	33	22	220
9- 2-69	11	33	77	-	33	-	33	-	187
9-15-69	55	11	121	-	55	-	55	-	297
9-30-69	66	66	176	11	11	11	11	-	352
10-13-69	209	49	98	12	-	49	12	-	431
10-27-69	270	65	97	-	11	22	11	-	475
11-10-69	141	86	120	22	-	65	11	-	445
11-26-69	101	46	81	-	-	28	18	9	283
12-10-69	108	-	151	-	32	-	33	22	346

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Baldwin (C 21 04)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml.
1- 7-69	135	18	117	-	9	-	18	-	297
1-14-69	63	9	27	-	-	-	63	-	162
1-20-69	216	-	135	-	-	-	135	-	486
1-28-69	99	143	55	-	-	-	-	-	297
2- 4-69	144	192	72	-	-	-	24	-	432
2-11-69	-	121	444	-	-	-	11	-	176
2-18-69	33	110	44	-	-	-	-	-	187
2-25-69	108	72	48	-	-	-	-	36	264
3- 4-69	288	126	234	-	-	18	36	-	702
3-11-69	45	195	-	-	-	15	15	30	300
3-18-69	1591	74	407	-	37	-	148	-	2257
3-25-69	342	270	90	18	-	-	54	-	774
4- 1-69	45	135	60	-	-	-	90	30	360
4- 8-69	756	306	72	-	-	-	108	18	1260
4-15-69	414	144	565	-	-	-	306	252	1681
4-22-69	486	324	324	-	-	-	90	162	1386
4-28-69	99	44	44	-	11	11	-	11	220
5- 5-69	1480	37	296	-	-	37	74	74	1998
5-13-69	522	198	198	-	-	-	36	18	954
5-19-69	60	60	135	-	-	-	75	-	330
5-26-69	11	11	-	-	-	-	-	-	22
6-12-69	27	-	36	-	-	-	9	-	72
6-23-69	9	-	63	9	-	-	99	-	180
7- 8-69	18	-	18	18	-	-	-	-	54
7-24-69	-	54	54	-	-	-	558	18	684
8- 4-69	-	11	66	88	-	231	11	-	407
8-18-69	-	11	99	-	11	55	-	22	198
9- 2-69	33	-	220	-	-	22	33	-	363
9-15-69	11	-	143	11	11	-	44	-	220
9-30-69	74	37	197	12	-	37	99	12	467
10-13-69	108	-	97	32	32	43	22	-	335
10-27-69	130	151	108	-	22	-	11	-	421
11-10-69	148	9	91	9	-	9	9	-	275
11-26-69	130	43	120	-	-	22	-	-	315
12- 8-69	119	-	88	33	-	22	-	-	262

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Nottingham (D 23 01)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml.
1- 7-69	180	-	144	-	-	-	18	-	342
1-14-69	66	66	-	-	-	-	-	-	132
1-21-69	63	18	90	-	-	-	27	-	198
1-30-69	360	108	36	-	-	-	54	-	558
2- 4-69	284	94	230	-	-	13	108	-	729
2-11-69	48	84	24	-	12	-	36	-	204
2-18-69	60	72	180	-	-	-	48	-	360
2-26-69	240	36	84	-	-	-	24	36	420
3- 4-69	126	99	45	-	-	-	36	-	306
3-13-69	594	88	66	-	-	-	-	-	748
3-18-69	2332	264	220	-	-	-	132	-	2948
3-26-69	176	660	66	-	-	-	66	22	990
4- 1-69	629	740	111	-	-	-	74	37	1591
4- 9-69	75	150	150	-	-	-	60	45	480
4-15-69	168	72	120	-	-	-	96	12	564
4-23-69	132	286	154	-	-	-	44	88	704
4-28-69	378	54	144	-	-	-	18	18	612
5- 7-69	450	15	120	-	-	-	15	-	600
5-13-69	1188	342	162	-	-	-	-	-	1692
5-26-69	33	33	33	-	-	-	-	-	99
6-12-69	9	18	36	9	-	-	-	-	72
6-23-69	18	9	27	-	-	-	-	-	63
7- 8-69	55	22	44	22	-	-	11	-	154
7-24-69	9	18	45	27	9	-	-	-	108
8- 4-69	-	-	66	33	-	-	11	-	110
8-18-69	11	11	110	33	-	44	22	11	242
9- 2-69	11	22	187	-	-	22	-	11	253
9-15-69	11	44	121	-	11	11	66	-	264
10-13-69	66	77	154	11	22	11	66	-	407
10-27-69	367	173	86	-	-	-	-	-	626
11-10-69	184	25	172	12	-	-	-	-	393
11-26-69	65	11	55	-	54	-	11	-	196
12- 8-69	407	277	145	18	-	-	18	-	865

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Eastlake (Station E-2501)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml.
1-7-69	54	36	72	18	-	-	-	-	180
1-29-69	33	22	11	-	-	-	-	-	66
2-5-69	135	270	15	-	-	-	-	-	420
2-19-69	63	9	36	-	-	-	18	9	135
3-3-69	96	72	168	-	-	-	48	12	396
3-17-69	2,508	176	132	-	-	-	264	-	3,080
4-1-69	45	450	15	-	-	-	15	15	540
4-16-69	352	176	924	-	-	-	396	-	1,848
4-28-69	336	156	324	-	-	-	48	72	936
5-28-69	105	135	75	15	-	-	-	-	330
6-10-69	63	9	27	-	-	-	-	-	99
6-23-69	27	36	9	9	-	-	45	-	126
7-7-69	-	9	54	-	-	-	-	-	63
7-22-69	63	36	72	27	-	-	108	-	306
8-7-69	11	-	176	44	22	198	44	-	495
8-20-69	110	616	682	88	132	-	528	-	2,156
9-2-69	126	144	198	-	54	90	54	-	666
9-15-69	176	88	286	-	22	44	242	-	858
10-2-69	72	18	198	-	-	-	144	-	432
10-13-69	105	75	300	15	15	-	180	-	690
10-28-69	108	-	43	-	-	-	11	11	173
11-10-69	108	-	88	-	-	11	22	-	229
11-26-69	156	-	18	-	-	-	-	-	174
12-8-69	324	-	87	-	-	22	22	-	455

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Mentor (E 26 01)

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml.
1- 7-69	162	72	126	-	-	-	18	36	414
1-14-69	18	18	45	-	-	-	9	-	90
1-21-69	18	-	36	-	-	-	-	-	54
1-28-69	33	11	11	-	-	-	-	-	55
2- 4-69	168	108	84	12	12	-	48	-	432
2-11-69	84	84	60	-	-	-	24	-	252
2-18-69	44	121	22	-	-	-	-	-	187
2-25-69	72	81	72	-	-	-	45	-	270
3- 4-69	120	48	132	-	-	-	36	12	348
3-11-69	5808	220	220	-	44	-	132	44	6468
3-18-69	5550	407	148	-	-	-	-	-	6105
3-25-69	3344	484	176	-	44	-	440	-	4488
4- 1-69	88	440	88	-	-	-	176	-	792
4- 8-69	88	330	132	-	-	-	110	22	682
4-15-69	132	44	44	-	-	-	330	22	572
4-22-69	370	629	333	-	-	-	148	-	1480
4-28-69	225	30	45	-	-	-	75	150	525
5-28-69	450	54	234	-	-	-	-	-	738
6-11-69	27	-	27	-	-	-	-	-	54
6-23-69	36	9	63	9	-	-	27	9	153
7- 7-69	18	108	54	36	-	-	-	-	216
7-24-69	22	22	66	66	-	-	-	-	176
8- 7-69	11	11	187	88	-	33	44	-	374
8-20-69	60	360	480	90	45	-	210	-	1245
9- 4-69	27	9	198	-	9	-	18	-	261
9-15-69	66	66	330	-	-	66	198	-	726
10- 2-69	37	9	110	9	-	-	55	-	2208
10-15-69	225	60	165	-	15	-	30	-	495
10-29-69	22	-	22	-	-	-	-	-	43
11-10-69	166	15	36	-	-	9	-	-	229
12-10-69	139	9	63	-	37	18	18	-	284
12-23-69	216	86	128	-	14	14	-	-	458

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Painesville (Station F-2718)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml.
1-7-69	36	36	36	-	-	-	18	-	126
1-21-69	-	11	-	-	-	-	11	-	22
1-28-69	27	27	18	9	-	-	-	-	81
2-4-69	216	54	54	-	36	-	18	-	378
2-11-69	33	22	33	-	-	-	11	11	110
2-18-69	22	22	77	-	-	-	-	-	121
2-25-69	55	88	11	-	-	-	22	-	176
3-4-69	150	75	90	-	-	-	90	-	405
3-11-69	6,644	352	-	-	-	-	-	-	6,996
3-18-69	4,224	132	44	-	-	-	220	88	4,708
3-25-69	3,071	555	222	-	-	-	74	-	3,922
4-1-69	66	616	22	-	-	-	-	22	726
4-8-69	324	306	126	-	-	-	234	72	1,062
4-15-69	88	396	44	-	-	-	616	44	1,188
4-22-69	648	324	288	-	-	-	-	18	1,278
4-28-69	110	110	176	-	22	-	176	88	682
5-28-69	228	72	408	-	12	-	-	12	732
6-11-69	18	45	45	9	-	-	9	--	126
6-23-69	45	18	27	18	-	-	54	-	162
7-7-69	165	105	90	60	-	-	15	-	435
7-24-69	252	252	252	216	-	-	36	-	1,008
8-7-69	-	-	110	22	-	11	77	-	220
8-20-69	45	105	390	45	45	15	210	-	855
9-4-69	15	75	390	-	90	-	30	-	600
9-15-69	15	45	300	15	60	-	90	-	525
10-2-69	48	24	204	-	-	-	156	-	432
10-15-69	143	-	187	-	33	-	44	11	418
10-29-69	130	115	144	-	14	-	58	-	461
11-10-69	76	11	55	11	-	-	11	11	175
11-28-69	165	92	63	-	-	-	18	-	338
12-10-69	230	28	54	-	-	9	9	-	330
12-23-69	221	120	63	9	-	-	-	-	413

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Madison (Station G-3001)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml.
1-3-69	108	-	162	-	-	-	-	-	270
1-7-69	108	-	-	-	-	-	-	-	108
1-14-69	36	9	63	-	-	-	27	-	135
1-21-69	18	-	36	-	-	-	-	-	54
1-28-69	117	27	9	-	-	-	18	9	180
2-4-69	22	66	22	-	-	-	-	-	110
2-11-69	63	18	36	-	-	-	9	-	126
2-18-69	81	27	14	13	-	-	81	27	243
2-25-69	999	-	111	-	-	-	-	-	1,110
3-4-69	720	162	18	-	-	-	18	-	918
3-11-69	2,552	44	-	-	-	-	-	44	2,640
3-18-69	2,772	220	176	-	-	-	-	44	3,212
3-25-69	3,293	703	444	-	-	-	222	37	4,699
4-1-69	234	342	162	-	-	-	18	-	756
4-8-69	396	378	198	-	-	-	90	18	1,080
4-15-69	264	88	176	-	-	-	198	-	726
4-22-69	312	204	60	-	-	-	12	36	624
4-28-69	88	154	66	-	-	-	198	88	594
5-28-69	120	75	45	15	-	-	-	-	255
6-11-69	18	18	18	-	-	-	9	-	63
6-23-69	18	18	54	-	-	-	18	-	108
7-7-69	176	-	44	66	-	-	22	-	308
7-24-69	22	33	132	132	-	-	22	-	341
8-7-69	-	11	110	33	-	22	55	-	231
8-20-69	-	66	198	11	-	22	88	22	407
9-4-69	11	11	132	-	22	44	33	-	253
9-15-69	15	30	165	-	75	-	210	-	495
10-2-69	108	96	192	-	108	-	36	-	540
10-15-69	220	55	176	-	11	-	44	-	506
10-29-69	18	-	18	-	-	-	-	-	37
11-10-69	46	9	55	-	-	-	18	-	128
11-28-69	332	111	91	-	-	37	18	-	589
12-10-69	74	9	63	-	37	-	18	9	210
12-23-69	734	302	172	-	43	86	-	-	1,337

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ashtabula (Station G-3303)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml.
1-7-69	180	18	108	18	-	-	-	-	324
1-14-69	33	-	33	-	-	-	11	-	77
1-21-69	9	-	9	-	-	-	-	-	18
1-28-69	95	68	67	-	-	-	13	-	243
2-4-69	55	44	22	-	-	-	11	-	132
2-11-69	324	-	81	-	-	-	81	-	486
2-18-69	171	63	90	-	9	-	45	18	396
2-25-69	1,206	54	54	-	-	-	-	-	1,314
3-4-69	2,332	132	-	-	-	-	-	-	2,464
3-11-69	4,329	185	185	-	-	-	185	-	4,884
3-18-69	2,331	148	74	-	-	-	37	-	2,590
3-26-69	440	1,362	264	-	-	-	-	44	2,120
4-1-69	135	345	30	-	-	-	75	-	585
4-9-69	576	198	180	-	-	-	126	36	1,116
4-15-69	450	234	162	-	-	-	144	18	1,008
4-28-69	846	216	216	-	-	-	18	36	1,332
5-7-69	360	252	162	-	-	-	18	18	810
5-28-69	216	45	82	-	-	-	-	-	343
6-11-69	18	-	18	-	-	-	-	-	36
6-23-69	45	18	63	-	-	-	-	-	126
7-7-69	154	308	44	22	-	-	-	-	528
7-24-69	-	45	36	36	-	-	-	-	117
8-6-69	11	-	110	-	-	11	-	-	132
8-20-69	11	165	264	44	-	11	55	-	550
9-3-69	-	9	117	-	9	-	9	-	144
9-15-69	44	132	440	22	22	44	110	22	836
10-2-69	54	43	182	-	32	-	75	-	385
10-15-69	225	105	120	15	-	-	45	-	510
10-29-69	43	32	86	-	11	11	-	-	184
11-10-69	86	32	44	-	22	11	43	-	238
11-28-69	101	28	82	-	9	9	27	-	256
12-10-69	244	58	101	-	72	-	14	-	489
12-23-69	389	86	88	-	-	-	44	-	607

TABLE 7 (Concluded)

WATER INTAKE STUDY

PLANKTON

Conneaut (Station H-3605)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml.
1-6-69	36	-	90	-	-	-	18	-	144
1-14-69	45	18	36	-	-	-	-	-	99
1-20-69	22	-	22	-	-	-	-	-	44
1-28-69	14	13	135	-	-	-	40	14	216
2-3-69	132	55	66	-	-	-	11	-	264
2-11-69	81	54	81	-	-	-	216	27	459
2-17-69	255	30	15	-	-	-	15	-	315
2-25-69	486	72	18	-	-	-	-	-	576
3-3-69	1,342	198	22	-	-	-	88	22	1,672
3-11-69	1,980	308	-	-	-	-	-	-	2,288
3-17-69	4,477	148	185	-	-	-	222	-	5,032
3-25-69	66	88	88	-	11	-	44	33	330
4-1-69	1,602	342	144	18	-	-	108	18	2,232
4-8-69	660	264	44	-	22	-	308	22	1,320
4-15-69	828	252	360	-	-	-	126	36	1,602
4-22-69	252	468	198	18	-	-	54	36	1,026
4-28-69	240	120	144	-	-	-	24	12	540
5-28-69	11	11	11	-	-	-	-	-	33
6-11-69	45	27	36	-	-	-	-	-	108
6-23-69	36	45	36	9	-	-	-	-	126
7-7-69	11	44	33	11	-	-	-	-	99
7-24-69	-	45	72	63	-	-	9	-	189
8-6-69	-	11	99	33	-	-	-	-	143
8-20-69	-	44	363	88	44	-	88	-	627
9-4-69	33	-	286	-	11	11	11	-	352
9-15-69	44	33	143	-	99	11	66	-	396
10-2-69	36	36	54	-	-	-	558	-	684
10-15-69	66	99	77	11	55	-	88	-	396
10-29-69	11	-	11	-	-	-	11	-	32
11-10-69	86	22	43	-	-	-	22	-	173
11-28-69	56	18	72	-	9	9	9	-	173
12-10-69	74	-	45	9	18	9	-	-	155
12-23-69	425	85	42	-	-	21	-	-	573

TABLE 8

DOMINANT PHYTOPLANKTON

Toledo (Station E-0301)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-8-69	Cyclo-Steph	1,224	Scenedesmus	36	Melosira	18	Tabellaria	18	1,314
1-14-69	Cyclo-Steph	684	Diatoms-Pennate Unidentified	558	Closteriopsis	36	Oscillatoria	18	1,332
1-20-69	Cyclo-Steph	1,665	Diatoms-Pennate Unidentified	185	Coccoid-Green Unidentified	72	Melosira	37	1,998
1-28-69	Cyclo-Steph	999	Diatoms-Pennate Unidentified	296	Coccoid-Green Unidentified	37			1,332
2-3-69	Cyclo-Steph	150	Pennate	135	Pediastrum	15	Oedogonium	15	315
2-11-69	Cyclo-Steph	220	Diatoms-Pennate Unidentified	154	Melosira	22	Asterionella	22	484
2-17-69	Cyclo-Steph	176	Diatoms-Pennate Unidentified	66	Melosira	11	Asterionella	11	297
2-25-69	Cyclo-Steph	925	Diatoms-Pennate Unidentified	111	Diatoma	74	Melosira	37	1,184
3-4-69	Cyclo-Steph	3,168	Pennate*	264	Melosira	44	Phacus	44	3,652
3-11-69	Cyclo-Steph	880	Pennate	484	Melosira	22			1,386
3-18-69	Cyclo-Steph	9,324	Pennate	333	Coccoid-Green Unidentified	111	Ankistrodesmus	37	9,879
3-25-69	Cyclo-Steph	11,470	Ankistrodesmus	148	Melosira	37	Dinobryon	37	13,098
4-1-69	Pennate	352	Dinobryon	132	Melosira	88	Trachelomonas	44	2,464
4-8-69	Diatoms-Pennate	1,100	Pennate	308	Melosira	176	Phacotus	44	1,760
4-17-69	Melosira	616	Phacus	44	Aphanizomenon	44	Cyclo-Steph	44	1,364
4-22-69	Cyclo-Steph	1,498	Pennate	704	Flagellates-Green	132	Melosira	88	2,554
4-28-69	Cyclo-Steph	999	Pennate	666	Melosira	74	Aphanizomenon	37	1,813
5-6-69	Melosira	748	Pennate	616	Ankistrodesmus	88	Cyclo-Steph	44	1,628
5-12-69	Cyclo-Steph	1,369	Pennate	333	Ankistrodesmus	185	Melosira	148	2,183
5-27-69	Scenedesmus	484	Melosira	352	Pennate	176	Anabaena	132	1,936
6-10-69	Cyclo-Steph	3,737	Scenedesmus	851	Pennate	518	Phacotus	444	6,993
6-23-69	Cyclo-Steph	666	Scenedesmus	555	Melosira	333	Pennate	222	2,997

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Toledo (Station E-0301)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
7-8-69	Cyclo-Steph	286	Pennate	154	Oocystis	66	Coelastrum	22	726
7-21-69	Cyclo-Steph	209	Pediastrum	22	Scenedesmus	22	Peridinium	11	308
*8-19-69	Cyclo-Steph	495	Ceratium	60	Spaerocystis	45	Ankistrodesmus	30	810
9-2-69	Aphanizomenon	1,800	Anacystis	558	Cyclo-Steph	162	Phacus	90	2,790
9-15-69	Cyclo-Steph	180	Cryptomonas	105	Oscillatoria	90	Aphanizomenon	75	795
9-30-69	Aphanizomenon	462	Coccoid-Blue-Green	198	Cyclo-Steph	176	Pennate	110	1,496
10-16-69	Aphanizomenon	994	Melosira	221	Coccoid-Green	184	Pennate	74	2,392
10-30-69	Cyclo-Steph	184	Scenedesmus	129	Pennate	92	Melosira	74	846
11-14-69	Pennate	410	Melosira	238	Cyclo-Steph	194	Pediastrum	43	1,015
11-26-69	Melosira	166	Cyclo-Steph	101	Pennate	55	Scenedesmus	18	358
12-11-69	Melosira	554	Pennate	407	Cyclo-Steph	296	Schroederia	74	1,664
12-22-69	Cyclo-Steph	1,814	Melosira	432	Pennate	389	Ankistrodesmus	86	2,936
* -1-69	Aphanizomenon	220	Cyclo-Steph	19	Coccoid-Green Unident	66	Anacystis	66	660

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Port Clinton (Station C-0704)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	6,292	Diatoms-Pennate Unidentified	88	Scenedesmus	44			6,512
1-8-69	Cyclo-Steph	3,258	Melosira	144	Scenedesmus	90	Ankistrodesmus	54	3,654
1-21-69	Cyclo-Steph	1,134	Diatoms-Pennate Unidentified	72	Diatoma	36	Asterionella	18	1,332
1-28-69	Cyclo-Steph	900	Diatoms-Pennate Unidentified	162	Ankistrodesmus	54	Phacus	36	1,170
2-4-69	Cyclo-Steph	1,364	Diatoms-Pennate Unidentified	264	Asterionella	220	Diatoma	88	2,068
2-11-69	Diatoms-Pennate Unidentified	88	Melosira	55	Cyclo-Steph	22	Asterionella	11	220
2-18-69	Cyclo-Steph	192	Diatoma	48	Asterionella	12	Synedra	12	300
2-25-69	Cyclo-Steph	276	Phacus	48	Asterionella	36	Fragilaria	24	444
3-4-69	Cyclo-Steph	7,585	Pennate*	296	Coccoid-Green Unidentified	37	Phacotus	37	7,955
3-11-69	Cyclo-Steph	18,463	Pennate	11,470	Ankistrodesmus	185	Oedogonium	37	30,155
3-18-69	Cyclo-Steph	12,980	Pennate	836	Melosira	44	Trachelomonas	44	13,948
3-25-69	Cyclo-Steph	8,008	Pennate	1,540	Melosira	176	Anacystis	44	9,864
4-1-69	Cyclo-Steph	2,640	Melosira	132	Phacotus	44	Phacus	44	3,606
4-8-69	Cyclo-Steph	1,716	Melosira	396	Pennate	352	Phacus	88	2,596
4-17-69	Cyclo-Steph	972	Pennate	360	Ankistrodesmus	90	Dinobryon	18	1,476
4-28-69	Pennate	60	Euglena	45	Melosira	30	Ankistrodesmus	15	240
5-6-69	Cyclo-Steph	1,887	Melosira	1,665	Pennate	1,554	Ankistrodesmus	74	5,476
5-12-69	Melosira	1,936	Pennate	528	Cyclo-Steph	484	Scenedesmus	132	3,432
5-17-69	Melosira	77	Pennate	66	Anacystis	55	Ankistrodesmus	44	385
6-10-69	Cyclo-Steph	3,960	Pennate	308	Melosira	264	Phacotus	176	5,588
6-23-69	Cyclo-Steph	720	Scenedesmus	144	Oocystis	126	Pennate	108	1,656

* Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Port Clinton (Station C-0704)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
7-8-69	Cyclo-Steph	418	Pennate	110	Filamentous-Green Unidentified	44	Melosira	22	638
7-21-69	Cyclo-Steph	66	Trachelomonas	44	Staurastrum	22	Pennate	11	165
8-4-69	Coccoid-Green Unidentified	80	Anacystis	80	Cyclo-Steph	64	Pennate	64	394
8-19-69	Pennate	66	Pediastrum	55	Oocystis	33	Scenedesmus	22	377
9-15-69	Aphanizomenon	165	Coccoid-Blue-Green Unidentified	75	Coelastrum	45	Selenastrum	30	615
9-30-69	Cyclo-Steph	180	Pediastrum	72	Scenedesmus	36	Trachelomonas	18	522
10-2-69	Cyclo-Steph	258	Pennate	37	Cosmarium	18	Staurastrum	18	442
10-16-69	Pennate	367	Cyclo-Steph	281	Scenedesmus	86	Melosira	65	1,102
10-30-69	Coccochloras	2,074	Cyclo-Steph	432	Aphanizomenon	389	Filamentous-Blue-Green Unidentified	216	3,845
11-14-69	Scenedesmus	221	Tetrastrum	166	Cyclo-Steph	147	Melosira	110	953
11-26-69	Cyclo-Steph	589	Pennate	221	Scenedesmus	111	Melosira	55	1,160
12-11-69	Cyclo-Steph	2,137	Pennate	332	Melosira	258	Pennate	332	3,097
12-22-69	Cyclo-Steph	2,247	Pennate	184	Melosira	129	Ankistrodesmus	111	2,762

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Sandusky (Station B-1101)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	54	Scenedesmus	36	Surirella	18	Selenastrum	18	162
1-14-69	Melosira	33	Asterionella	22	Fragilaria	11	Tetrastrum	11	143
1-21-69	Cyclo-Steph	220	Asterionella	110	Diatons-Pennate Unidentified	66	Melosira	44	484
1-28-69	Cyclo-Steph	324	Asterionella	36	Melosira	18	Fragilaria	18	504
2-4-69	Cyclo-Steph	360	Diatoma	234	Diatoms-Pennate Unidentified	108	Fragilaria	54	774
2-11-69	Cyclo-Steph	342	Diatoma	126	Asterionella	54	Fragilaria	36	666
2-18-69	Pennate	117	Cyclo-Steph	45	Ankistrodesmus	18	Oocystis	9	225
2-25-69	Pennate	240	Cyclo-Steph	30	Melosira	15	Ankistrodesmus	15	330
3-4-69	Cyclo-Steph	2,024	Pennate*	264	Phacotus	176	Tetrastrum	88	2,904
3-11-69	Cyclo-Steph	1,591	Pennate	296	Melosira	148	Coccoid-Green Unidentified	111	2,257
3-18-69	Pennate	396	Coccoid-Green Unidentified	88	Cyclo-Steph	22	Tetrastrum	22	594
3-25-69	Pennate	1,221	Cyclo-Steph	962	Ankistrodesmus	185	Melosira	74	2,738
4-1-69	Cyclo-Steph	4,662	Pennate	888	Melosira	148	Ankistrodesmus	74	5,920
4-8-69	Pennate	462	Ankistrodesmus	66	Melosira	22	Closteriopsis	22	662
4-17-69	Cyclo-Steph	336	Pennate	252	Ankistrodesmus	156	Coccoid-Green Unidentified	24	872
4-22-69	Pennate	484	Cyclo-Steph	83	Ankistrodesmus	22	Anacystis	22	616
4-28-69	Pennate	204	Cyclo-Steph	156	Ankistrodesmus	48	Melosira	24	480
5-6-69	Cyclo-Steph	720	Melosira	414	Pennate	342	Flagellates-Green Unidentified	108	2,034
5-12-69	Melosira	748	Pennate	352	Cyclo-Steph	88	Anacystis	44	1,364
5-27-69	Pennate	352	Scenedesmus	308	Melosira	220	Pediastrum	132	2,860

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Sandusky (Station B-1101)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
6-9-69	Cyclo-Steph	144	Pennate	84	Melosira	36	Oocystis	24	360
6-23-69	Cyclo-Steph	288	Pennate	84	Scenedesmus	36	Oocystis	24	552
7-8-69	Cyclo-Steph	360	Pennate	108	Staurastrum	54	Oocystis	18	540
7-21-69	Cyclo-Steph	22	Staurastrum	22	Ceratium	11			55
8-4-69	Cyclo-Steph	209	Coccoid Green Unidentified	99	Schroederia	22	Ankistrodesmus	11	395
8-20-69	Pennate	682	Cyclo-Steph	396	Flagellates-Green Unidentified	352	Coccoid-Green Unidentified	88	1,980
9-2-69	Thacus	66	Cyclo-Steph	55	Oocystis	44	Pennate	33	231
9-15-69	Aphanizomenon	810	Cyclo-Steph	270	Schroederia	90	Ankistrodesmus	45	1,620
9-30-69	Aphanizomenon	612	Pennate	108	Cyclo-Steph	72	Melosira	36	1,290
10-16-69	Arhanizomenon	367	Cyclo-Steph	281	Coccoid-Green Unidentified	130	Pennate	108	1,145
10-30-69	Cyclo-Steph	734	Aphanizomenon	216	Scenedesmus	173	Tribonema	130	1,469
11-13-69	Pennate	202	Tetrastrum	110	Melosira	74	Scenedesmus	55	770
11-26-69	Cyclo-Steph	157	Melosira	37	Pennate	28	Aphanizomenon	18	339
12-11-69	Cyclo-Steph	774	Pennate	203	Melosira	147	Ankistrodesmus	74	1,326
12-22-69	Cyclo-Steph	907	Pennate	259	Melosira	216	Scenedesmus	86	1,726

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Huron (Station A-1204)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	108	Ankistrodesmus	36	Asterionella	18	Actinastrum	18	252
1-15-69	Cyclo-Steph	54	Diatoma	27	Scenedesmus	27	Lagerheimia	27	378
1-21-69	Melosira	44	Cyclo-Steph	33	Diatoma	33	Closteriopsis	11	132
1-27-69	Cyclo-Steph	264	Coccoid-Green Unidentified	48	Ankistrodesmus	48	Melosira	12	396
2-4-69	Cyclo-Steph	234	Diatoma	126	Fragilaria	54	Melosira	36	648
2-11-69	Melosira	88	Cyclo-Steph	66	Diatoms-Centric Unidentified	44	Ankistrodesmus	44	330
2-18-69	Cyclo-Steph	60	Asterionella	36	Melosira	24	Fragilaria	12	228
2-24-69	Pennate	300	Melosira	60					360
3-4-69	Cyclo-Steph	1,980	Pennate*	352	Tetrastrum	88	Actinastrum	44	2,728
3-10-69	Cyclo-Steph	1,716	Pennate	616	Trachelomonas	44	Flagellates-Green Unidentified	44	2,420
3-18-69	Cyclo-Steph	1,892	Pennate	1,276	Dinobryon	176	Phacus	88	3,520
3-24-69	Pennate	770	Cyclo-Steph	154	Melosira	66	Peridinium	44	1,078
4-1-69	Pennate	880	Melosira	176	Coccoid-Green Unidentified	132	Ankistrodesmus	44	1,320
4-7-69	Pennate	738	Cyclo-Steph	324	Melosira	90	Dinobryon	54	1,260
4-17-69	Pennate	418	Ankistrodesmus	66	Anacystis	22	Peridinium	22	616
4-22-69	Pennate	216	Cyclo-Steph	204	Melosira	36	Ankistrodesmus	24	552
4-28-69	Cyclo-Steph	300	Pennate	120	Ankistrodesmus	24	Melosira	12	516
5-5-69	Cyclo-Steph	220	Melosira	198	Pennate	176	Scenedesmus	44	660
5-12-69	Melosira	374	Pennate	242	Cyclo-Steph	132	Scenedesmus	44	1,012
5-27-69	Pennate	77	Cyclo-Steph	66	Ankistrodesmus	22	Melosira	11	275
6-9-69	Pennate	72	Ankistrodesmus	48	Scenedesmus	36	Coccoid-Green Unidentified	24	252
6-23-69	Cyclo-Steph	72	Pennate	63	Phacus	54	Melosira	27	279

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Huron (Station A-1204)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
7-9-69	Pennate	44	Melosira	22	Scenedesmus	11	Schroederia	11	154
7-22-69	Ceratium	117	Staurastrum	36	Cyclo-Steph	27	Pennate	18	216
8-04-69	Cyclo-Steph	99	Schroederia	44	Coccoid-Green	22	Ankistrodesmus	22	220
8-19-69	Cyclo-Steph	506	Pennate	484	Unidentified Flagellates-Green	198	Coccoid-Blue-Green	66	1,562
9-2-69	Cyclo-Steph	240	Staurastrum	135	Unidentified Coccoid-Green	90	Unidentified Oocystis	60	885
9-15-69	Aphanizomenon	1,935	Oscillatoria	225	Unidentified Cyclo-Steph	180	Pediastrum	90	2,565
9-30-69	Aphanizomenon	550	Cyclo-Steph	198	Pennate	44	Coelastrum	22	990
10-16-69	Cyclo-Steph	346	Aphanizomenon	238	Staurastrum	65	Pennate	43	929
10-30-69	Aphanizomenon	259	Cyclo-Steph	194	Oscillatoria	86	Pennate	43	778
11-14-69	Cyclo-Steph	209	Pennate	148	Scenedesmus	93	Melosira	74	823
11-26-69	Cyclo-Steph	147	Pennate	49	Ankistrodesmus	25	Oocystis	12	318
12-11-69	Cyclo-Steph	432	Pennate	238	Scenedesmus	130	Melosira	65	1,299
12-22-69	Cyclo-Steph	1,166	Melosira	389	Scenedesmus	130	Oocystis	86	1,986

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Vermilion (Station B-1404)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	126	Tetrastrum	54	Actinastrum	36	Melosira	18	396
1-14-69	Cyclo-Steph	180	Tetrastrum	60	Ankistrodesmus	48	Melosira	24	384
1-21-69	Melosira	33	Diatoms-Pennate Unidentified	22	Asterionella	11	Anacystis	11	77
1-28-69	Cyclo-Steph	121	Diatoma	66	Fragilaria	11			198
2-4-69	Diatoma	220	Cyclo-Steph	110	Melosira	88	Fragilaria	66	528
2-11-69	Diatoms-Pennate Unidentified	135	Melosira	60	Phacus	45	Asterionella	30	375
2-18-69	Diatoms-Pennate Unidentified	44	Cyclo-Steph	33	Asterionella	22	Ankistrodesmus	22	132
2-25-69	Diatoms-Pennate Unidentified	132	Cyclo-Steph	66	Fragilaria	22	Filamentous Blue-Green Unidentified	22	440
3-4-69	Cyclo-Steph	594	Pennate	484	Melosira	44	Ankistrodesmus	44	1,364
3-11-69	Cyclo-Steph	660	Pennate	528	Melosira	88	Coccoid-Green Unidentified	44	1,331
3-18-69	Cyclo-Steph	1,188	Diatoma	198	Franceia	144	Ankistrodesmus	108	2,088
3-25-69	Pennate	1,210	Cyclo-Steph	66	Actinastrum	44	Franceia	22	1,452
4-1-69	Pennate	748	Cyclo-Steph	528	Melosira	88	Trachelomonas	44	1,452
4-8-69	Pennate	220	Ankistrodesmus	66	Flagellates-Green Unidentified	44	Peridinium	22	396
4-17-69	Melosira	154	Pennate	110	Coccoid-Green Unidentified	66	Peridinium	44	614
4-22-69	Pennate	132	Peridinium	88	Flagellates-Green Unidentified	66	Ankistrodesmus	44	440
4-28-69	Cyclo-Steph	468	Pennate	234	Peridinium	72	Scenedesmus	36	900
5-6-69	Cyclo-Steph	918	Pennate	360	Melosira	270	Ankistrodesmus	72	1,782

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Vermilion (Station B-1404)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
5-12-69	Cyclo-Steph	1,110	Melosira	851	Pennate	481	Coccoid-Green Unidentified	74	2,701
5-27-69	Cyclo-Steph	150	Scenedesmus	75	Pennate	45	Ankistrodesmus	30	345
6-9-69	Pennate	72	Cyclo-Steph	63	Oocystis	36	Scenedesmus	27	225
6-23-69	Cyclo-Steph	162	Pennate	90	Phacus	36	Ankistrodesmus	18	360
7-22-69	Cyclo-Steph	99	Pennate	18	Staurastrum	18	Scenedesmus	9	153
8-7-69	Cyclo-Steph	660	Coccoid-Green Unidentified	176	Pennate	88	Scenedesmus	44	1,320
8-14-69	Pennate	858	Flagellates-Green Unidentified	550	Sphaerocystis	154	Trachelomonas	66	2,068
9-2-69	Phacotus	180	Pennate	105	Aphanizomenon	90	Cyclo-Steph	75	675
9-14-69	Cyclo-Steph	108	Aphanizomenon	72	Oocystis	54	Cosmarium	36	684
9-30-69	Staurastrum	108	Oocystis	90	Cosmarium	36	Closteriopsis	18	414
10-16-69	Cyclo-Steph	294	Aphanizomenon	239	Anabaena	147	Pennate	92	1,049
10-30-69	Cyclo-Steph	276	Aphanizomenon	166	Scenedesmus	37	Melosira	18	644
11-14-69	Coccoid-Green Unidentified	576	Cyclo-Steph	173	Pennate	101	Scenedesmus	43	1,179
11-26-69	Cyclo-Steph	92	Melosira	46	Pennate	28	Staurastrum	18	211
12-11-69	Cyclo-Steph	778	Pennate	302	Coccoid-Green Unidentified	173	Melosira	86	1,683
12-22-69	Cyclo-Steph	663	Pennate	203	Melosira	92	Scenedesmus	55	1,196

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Klyria (Station B-1606)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./ml.
1-7-69	Cyclo-Steph	126	Asterionella	54	Melosira	36	Fragilaria	18	468
1-14-69	Cyclo-Steph	77	Asterionella	33	Melosira	11	Fragilaria	11	297
1-21-69	Cyclo-Steph	44	Ankistrodesmus	22	Melosira	11	Docystis	11	143
1-28-69	Cyclo-Steph	55	Asterionella	11	Melosira	11	Ankistrodesmus	11	132
2-4-69	Cyclo-Steph	132	Diatoma	96	Tetrastrum	36	Melosira	24	408
2-11-69	Cyclo-Steph	11	Diatom-Pennate Unidentified	11					22
2-18-69	Cyclo-Steph	306	Diatoma	126	Ankistrodesmus	72	Asterionella	36	702
2-25-69	Pennate	225	Melosira	90	Ankistrodesmus	45	Coccoid-Green Unidentified	30	420
3-4-69	Pennate	252	Cyclo-Steph	144	Phacus	108	Coccoid-Green Unidentified	90	720
3-11-69	Pennate	154	Cyclo-Steph	132	Staurastrum	22	Phacus	22	374
3-19-69	Pennate	420	Cyclo-Steph	135	Ankistrodesmus	15	Schroederia	15	615
3-25-69	Pennate	900	Cyclo-Steph	270	Ankistrodesmus	108	Melosira	72	1,602
4-2-69	Pennate	462	Ankistrodesmus	110	Melosira	66	Cyclo-Steph	44	792
4-8-69	Cyclo-Steph	925	Pennate *	629	Ankistrodesmus	185	Coccoid-Green Unidentified	74	1,924
4-16-69	Flagellates-- Green Unidentified	154	Pennate	88	Melosira	44	Lagerheimia	22	462
4-22-69	Pennate	132	Cyclo-Steph	110	Phacus	44	Phacotus	44	594
4-29-69	Cyclo-Steph	306	Pennate	198	Melosira	90	Aphanizomenon	18	720
5-6-69	Melosira	286	Cyclo-Steph	132	Pennate	66	Scenedesmus	22	704
5-13-69	Melosira	418	Cyclo-Steph	154	Pennate	66	Scenedesmus	44	770
5-27-69	Cyclo-Steph	77	Pennate	66	Oocystis	44	Melosira	33	264
6-9-69	Cyclo-Steph	63	Pennate	54	Coccoid-Green Unidentified	27	Staurastrum	9	171
6-23-69	Phacus	126	Cyclo-Steph	117	Pennate	36	Flagellates-Green Unidentified	27	378

*Beginning March 1969 the term "Pennate" is used in place of "Diatom-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Elyria (Station B-1606)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
7-9-69	Cyclo-Steph	36	Pennate	27	Coccoid-Green Unidentified	18	Scenedesmus	9	126
7-22-69	Cyclo-Steph	154	Oocystis	11	Staurastrum	11	Coccoid-Green Unidentified	11	187
8-7-69	Cyclo-Steph	160	Ankistrodesmus	96	Schroederia	48	Coccoid-Blue-Green Unidentified	32	592
8-20-69	Pennate	1,342	Flagellates-Green Unidentified	198	Staurastrum	88	Filamentous-Green Unidentified	44	1,892
9-3-69	Phacotus	81	Staurastrum	72	Pennate	27	Oocystis	9	243
9-15-69	Staurastrum	135	Aphanizomenon	120	Coccoid-Green Unidentified	90	Anabaena	30	750
9-30-69	Cyclo-Steph	143	Ankistrodesmus	55	Pennate	44	Anacystis	33	506
10-16-69	Cyclo-Steph	216	Aphanizomenon	180	Pennate	72	Scenedesmus	54	738
10-30-69	Cyclo-Steph	216	Scenedesmus	22	Pennate	11	Oocystis	11	410
11-13-69	Pennate	234	Aphanizomenon	49	Tetrastrum	25	Melosira	12	454
11-24-69	Cyclo-Steph	193	Aphanizomenon	55	Pennate	46	Scenedesmus	37	486
12-11-69	Cyclo-Steph	367	Pennate	130	Melosira	108	Scenedesmus	86	995
12-22-69	Cyclo-Steph	691	Pennate	216	Melosira	130	Scenedesmus	86	1,381

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Lorain (Station E-1605)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	198	Asterionella	72	Melosira	54	Staurastrum	36	504
1-14-69	Cyclo-Steph	22	Asterionella	11	Fragilaria	11	Ankistrodesmus	11	110
1-21-69	Diatoms-Pennate Unidentified	99	Cyclo-Steph	63	Ankistrodesmus	27	Scenedesmus	18	261
1-28-69	Cyclo-Steph	286	Diatoms-Pennate Unidentified	66	Coccoid-Green Unidentified	44	Diatoma	22	550
2-4-69	Diatoma	324	Cyclo-Steph	180	Ankistrodesmus	54	Melosira	36	702
2-11-69	Diatoma	120	Cyclo-Steph	84	Diatoms-Pennate Unidentified	36	Asterionella	24	396
2-18-69	Cyclo-Steph	180	Coccoid-Green Unidentified	144	Diatoma	126	Flagellates-Green Unidentified	90	810
2-25-69	Pennate	468	Cyclo-Steph	90	Melosira	54	Coccoid-Green Unidentified	36	738
3-4-69	Pennate	880	Cyclo-Steph	88	Melosira	44	Franceia	44	1,144
3-11-69	Pennate	594	Cyclo-Steph	270	Coccoid-Green Unidentified	72	Phacus	54	1,062
3-19-69	Pennate	450	Cyclo-Steph	288	Coccoid-Green Unidentified	90	Melosira	72	1,026
3-25-69	Pennate	1,110	Cyclo-Steph	148	Melosira	74	Ankistrodesmus	37	1,887
4-2-69	Pennate	1,012	Cyclo-Steph	132	Ankistrodesmus	44	Coccoid-Green Unidentified	44	1,408
4-8-69	Pennate	703	Cyclo-Steph	629	Ankistrodesmus	148	Coccoid-Green Unidentified	74	1,591
4-16-69	Flagellates-Green Unidentified	135	Melosira	90	Ankistrodesmus	60	Phacus	30	465
4-22-69	Pennate	132	Cyclo-Steph	88	Melosira	66	Peridinium	44	374

*Beginning March 1969 the term "Pennate" is used in place of "Diatom-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Lorain (Station B-1605)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
4-29-69	Peridinium	120	Cyclo-Steph	105	Pennate	75	Melosira	60	453
5-6-69	Cyclo-Steph	418	Melosira	286	Pennate	176	Scenedesmus	44	990
5-13-69	Melosira	836	Cyclo-Steph	264	Pennate	220	Coccoid-Green Unidentified	88	1,540
5-27-69	Pennate	88	Cyclo-Steph	55	Scenedesmus	44	Melosira	33	253
6-9-69	Cyclo-Steph	171	Pennate	99	Scenedesmus	45	Melosira	27	405
6-24-69	Phacus	168	Cyclo-Steph	120	Melosira	24	Staurastrum	12	384
7-7-69	Cyclo-Steph	162	Pennate	54	Melosira	36	Pediastrum	18	378
8-7-69	Cyclo-Steph	176	Aphanizomenon	160	Coccoid-Green Unidentified	80	Pennate	64	816
8-20-69	Pennate	570	Flagellates-Green Unidentified	360	Cyclo-Steph	75	Cosmarium	45	1,350
9-3-69	Phacotus	72	Staurastrum	45	Pennate	27	Oocystis	18	297
9-30-69	Cyclo-Steph	198	Staurastrum	108	Aphanizomenon	90	Pennate	36	612
10-16-69	Cyclo-Steph	259	Pennate	43	Pediastrum	22	Scenedesmus	22	799
10-30-69	Cyclo-Steph	92	Melosira	28	Oocystis	18	Pennate	9	294
11-12-69	Cyclo-Steph	308	Pennate	74	Aphanizomenon	62	Staurastrum	49	592
11-24-69	Cyclo-Steph	187	Melosira	58	Pennate	43	Oocystis	29	474
12-11-69	Cyclo-Steph	154	Melosira	108	Oocystis	43	Lagerheimia	22	974
12-22-69	Pennate	221	Melosira	160	Cyclo-Steph	74	Coelastrum	12	551

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Avon (Station C-1801)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	144	Ankistrodesmus	36	Scenedesmus	18	Tetrastrum	18	270
1-3-69	Cyclo-Steph	33	Tetrastrum	22	Scenedesmus	11	Fragilaria	11	99
1-22-69	Cyclo-Steph	22	Fragilaria	11	Tabellaria	11	Ankistrodesmus	11	121
1-28-69	Cyclo-Steph	203	Asterionella	41	Coccoid-Green Unidentified	27	Diatoma	14	396
2-5-69	Diatoma	132	Cyclo-Steph	110	Asterionella	66	Botryococcus	22	484
2-10-69	Diatoms-Pennate Unidentified	66	Flagellates-Green Unidentified	22	Melosira	11	Synedra	11	121
2-19-69	Cyclo-Steph	54	Melosira	27	Coccoid-Green Unidentified	18	Lagerheimia	9	198
2-25-69	Pennate	204	Cyclo-Steph	60	Ankistrodesmus	60	Flagellates-Green	48	456
3-5-69	Cyclo-Steph	216	Pennate *	162	Melosira	90	Phacus	54	630
3-12-69	Pennate	209	Cyclo-Steph	44	Coccoid-Green Unidentified	33	Phacotus	11	308
3-19-69	Pennate	143	Cyclo-Steph	55	Melosira	11	Phacotus	11	264
3-25-69	Pennate	990	Cyclo-Steph	396	Flagellates-Green Unidentified	72	Melosira	54	1,638
4-2-69	Pennate	572	Coccoid-Green Unidentified	66	Melosira	22	Tetrastrum	22	770
4-9-69	Pennate	612	Cyclo-Steph	522	Ankistrodesmus	126	Coccoid-Green Unidentified	90	1,584
4-16-69	Pennate	132	Flagellates-Green Unidentified	88	Cyclo-Steph	66	Tetrastrum	44	506
4-22-69	Cyclo-Steph	378	Pennate	192	Melosira	72	Ankistrodesmus	54	876
4-29-69	Cyclo-Steph	150	Pennate	135	Peridinium	60	Ankistrodesmus	45	450

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Axon (Station C-1801)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
5-5-69	Cyclo-Steph	1,422	Pennate	198	Ankistrodesmus	126	Scenedesmus	108	2,070
5-13-69	Melosira	252	Pennate	154	Cyclo-Steph	44	Scenedesmus	22	660
5-27-69	Scenedesmus	90	Melosira	60	Oocystis	45	Ankistrodesmus	30	390
6-9-69	Pennate	126	Melosira	27	Ankistrodesmus	18	Staurastrum	9	351
6-24-69	Cyclo-Steph	99	Pennate	22	Closteriopsis	11	Coelastrum	11	176
7-7-69	Cyclo-Steph	99	Pennate	54	Staurastrum	27	Coelastrum	18	252
7-22-69	Cyclo-Steph	132	Oocystis	44	Staurastrum	22	Pennate	11	242
8-7-69	Pennate	9							45
8-20-69	Pennate	902	Flagellates-Green Unidentified	616	Coccoid-Green Unidentified	264	Cyclo-Steph	220	2,498
9-3-69	Staurastrum	176	Pennate	110	Coccoid-Green Unidentified	88	Phacotus	66	924
9-30-69	Aphanizomenon	99	Cyclo-Steph	88	Pennate	55	Oocystis	44	473
10-16-69	Pennate	121	Cyclo-Steph	99	Staurastrum	55	Coccoid-Green Unidentified	44	440
10-30-69	Coccochloris	626	Cyclo-Steph	194	Apahnizomenon	86	Pennate	43	1,080
11-10-69	Cyclo-Steph	216	Apahnizomenon	144	Pennate	86	Flagellates-Green Unidentified	58	706
11-24-69	Cyclo-Steph	97	Pennate	76	Scenedesmus	32	Staurastrum	22	348
12-11-69	Cyclo-Steph	259	Pennate	108	Melosira	65	Ankistrodesmus	43	650
12-22-69	Cyclo-Steph	184	Pennate	101	Melosira	74	Ankistrodesmus	28	450

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Crown (Station C-2001)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	180	Ankistrodesmus	54	Tetrastrum	36	Rhizosolenia	18	432
1-23-69	Ankistrodesmus	108	Melosira	54	Cyclo-Steph	41	Selenastrum	14	406
2-4-69	Pennate	270	Melosira	90	Cosmarium	36	Ankistrodesmus	18	720
2-5-69	Diatoms-Pennate Unidentified	77	Cyclo-Steph	55	Fragilaria	55	Melosira	22	264
2-18-69	Diatoms-Pennate Unidentified	99	Melosira	22	Cyclo-Steph	11	Fragilaria	11	231
2-19-69	Cyclo-Steph	132	Diatoma	48	Ankistrodesmus	36	Flagellates-Green Unidentified	24	312
3-5-69	Pennate	132	Cyclo-Steph	60	Ankistrodesmus	36	Flagellates-Green Unidentified	24	324
3-11-69	Cyclo-Steph	234	Ankistrodesmus	54	Melosira	36	Oocystis	18	738
3-19-69	Cyclo-Steph	135	Pennate*	120	Coccoid-Green Unidentified	60	Scenedesmus	15	360
3-29-69	Pennate	462	Melosira	22	Schroederia	22	Staurastrum	22	572
4-2-69	Cyclo-Steph	630	Pennate	594	Melosira	108	Coccoid-Green Unidentified	54	1,494
4-8-69	Pennate	360	Ankistrodesmus	288	Coccoid-Green Unidentified	126	Flagellates-Green Unidentified	90	1,296
4-16-69	Ankistrodesmus	77	Flagellates-Green Unidentified	44	Cyclo-Steph	33	Peridinium	22	187
4-22-69	Pennate	220	Melosira	110	Cyclo-Steph	66	Phacus	44	550
4-29-69	Cyclo-Steph	420	Pennate	72	Melosira	60	Aphanizomenon	24	684
5-13-69	Melosira	255	Pennate	90	Coccoid-Green Unidentified	45	Tetrastrum	30	540
5-20-69	Pennate	66	Melosira	44	Scenedesmus	22	Staurastrum	11	198

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Crown (Station C-2001)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
5-26-69	Pennate	66	Melosira	44	Scenedesmus	22	Oocystis	11	198
6-9-69	Cyclo-Steph	72	Pennate	27	Melosira	18	Closteriopsis	9	198
6-24-69	Flagellates-Green Unidentified	33	Oedogonium	22	Oocystis	11	Cyclo-Steph	11	88
7-7-69	Cyclo-Steph	252	Pennate	108	Oedogonium	60	Pediastrum	24	504
7-24-69	Cyclo-Steph	45	Melosira	9	Oocystis	9	Staurastrum	9	90
8-7-69	Oedogonium	27	Cosmarium	9	Pediastrum	9			45
8-18-69	Filamentous-Blue-Green Unidentified	55	Oocystis	22	Pennate	11	Pediastrum	11	143
9-3-69	Coccoid-Green Unidentified	99	Flagellates-Green Unidentified	88	Oocystis	44	Pennate	33	440
9-15-69	Staurstrum	77	Aphanizomenon	44	Oocystis	33	Schroederia	22	407
9-30-69	Cyclo-Steph	121	Flagellates-Green Unidentified	44	Pennate	33	Cryptomonas	22	363
10-15-69	Cyclo-Steph	110	Pennate	33	Oocystis	22	Melosira	11	341
10-29-69	Cyclo-Steph	158	Aphanizomenon	101	Scenedesmus	58	Coelastrum	43	624
11-10-69	Cyclo-Steph	288	Oocystis	43	Pennate	29	Melosira	14	516
11-25-69	Cyclo-Steph	246	Aphanizomenon	37	Pennate	25	Oocystis	12	344
12-10-69	Cyclo-Steph	157	Dactylococcus	37	Ankistrodesmus	28	Oocystis	18	348
12-22-69	Cyclo-Steph	864	Melosira	302	Pennate	216	Aphanizomenon	173	1,900

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland Division (Station C-2103)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	144	Ankistrodesmus	36	Scenedesmus	27	Melosira	18	297
1-8-69	Cyclo-Steph	33	Fragilaria	22	Synedra	11			88
1-14-69	Cyclo-Steph	162	Diatoms-Pennate Unidentified	45	Coccoid-Green Unidentified	18	Ankistrodesmus	9	279
1-21-69	Melosira	55	Cyclo-Steph	33	Coccoid-Green Unidentified	22	Asterionella	11	209
1-28-69	Cyclo-Steph	738	Diatoma	54	Melosira	36	Scenedesmus	18	1,008
2-4-69	Cyclo-Steph	110	Asterionella	44	Diatoma	22	Ankistrodesmus	22	550
2-11-69	Pennate	378	Cyclo-Steph	90	Ankistrodesmus	36	Melosira	18	612
2-18-69	Melosira	44	Cyclo-Steph	22	Asterionella	22	Tabellaria	22	198
2-25-69	Cyclo-Steph	228	Pennate *	120	Ankistrodesmus	24	Melosira	12	564
3-4-69	Pennate	242	Cyclo-Steph	176	Melosira	44	Franceia	22	572
3-11-69	Pennate	228	Cyclo-Steph	72	Ankistrodesmus	48	Melosira	24	444
3-17-69	Cyclo-Steph	702	Ankistrodesmus	108	Pennate	72	Trachelomonas	36	1,098
3-25-69	Cyclo-Steph	154	Pennate	110	Melosira	44	Lagerheima	22	407
4-1-69	Cyclo-Steph	999	Pennate	333	Coccoid-Green Unidentified	111	Flagellates-Green Unidentified	74	1,628
4-8-69	Pennate	352	Ankistrodesmus	66					418
4-15-69	Cyclo-Steph	504	Ankistrodesmus	198	Pennate	162	Coccoid-Green Unidentified	126	1,098
4-22-69	Pennate	468	Cyclo-Steph	324	Ankistrodesmus	144	Phacus	72	1,386
4-28-69	Cyclo-Steph	348	Melosira	96	Ankistrodesmus	24	Tetrastrum	12	636
5-13-69	Cyclo-Steph	882	Pennate	162	Melosira	90	Scenedesmus	36	1,314
5-26-69	Melosira	22	Franceia	11	Tetrastrum	11	Anacystis	11	88
6-13-69	Sphaerocystis	9	Trachelomonas	9					18
6-23-69	Phacus	45	Pediastrum	9					54
7-8-69	Pennate	105	Oedogonium	75	Cyclo-Steph	45	Scenedesmus	30	300
7-24-69	Oocystis	36	Cyclo-Steph	18	Pennate	9	Anacystis	9	81

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland Division (Station C-2103)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
8-4-69	Filamentous-Green Unidentified	44	Oocystis	22	Flagellates-Green Unidentified	11	Cosmarium	11	110
8-18-69	Staurastrum	33	Oocystis	22	Cosmarium	11	Pediastrum	11	220
9-2-69	Pennate	33	Schroederia	22	Scenedesmus	11			187
9-15-69	Staurastrum	55	Phacotus	44	Coccoid-Blue-Green Unidentified	33	Cosmarium	22	297
9-30-69	Pennate	66	Closteriopsis	55	Oocystis	33	Coelastrum	22	352
10-13-69	Cyclo-Steph	209	Pennate	49	Aphanizomenon	37	Coccoid-Green Unidentified	25	431
10-27-69	Cyclo-Steph	259	Staurastrum	76	Pennate	65	Melosira	11	475
11-10-69	Cyclo-Steph	119	Pennate	86	Oocystis	43	Pediastrum	22	445
11-26-69	Cyclo-Steph	92	Pennate	46	Apahnizomenon	28	Pediastrum	18	283
12-10-69	Cyclo-Steph	108	Coccoid-Green Unidentified	86	Scenedesmus	43	Anacystis	32	346

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Baldwin (Station C-2104)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	108	Melosira	27	Tabellaria	18	Actinastrum	9	297
1-14-69	Cyclo-Steph	63	Phacus	54	Ankistrodesmus	27	Diatoma	9	162
1-20-69	Cyclo-Steph	189	Flagellates-Green Unidentified	135	Ankistrodesmus	54	Melosira	27	486
1-28-69	Asterionella	55	Cyclo-Steph	44	Fragilaria	22	Melosira	11	297
2-4-69	Cyclo-Steph	144	Diatoms-Pennate Unidentified	96	Diatoma	72	Fragilaria	24	432
2-11-69	Diatoms-Pennate Unidentified	66	Asterionella	22	Diatoma	11	Fragilaria	11	176
2-18-69	Diatoms-Pennate Unidentified	55	Fragilaria	33	Melosira	22	Cyclo-Steph	11	187
2-25-69	Cyclo-Steph	108	Pennate*	72	Coccoid-Green Unidentified	48	Peridinium	24	264
3-4-69	Cyclo-Steph	252	Coccoid-Green Unidentified	234	Pennate	126	Melosira	36	702
3-11-69	Pennate	195	Cyclo-Steph	45	Dinobryon	30	Phacotus	15	300
3-18-69	Cyclo-Steph	1,554	Ankistrodesmus	296	Pennate	74	Melosira	37	2,257
3-25-69	Cyclo-Steph	288	Pennate	270	Coccoid-Green Unidentified	72	Melosira	54	774
4-1-69	Pennate	135	Flagellates-Green Unidentified	75	Flagellates-Brown	30	Melosira	15	360
4-8-69	Cyclo-Steph	684	Pennate	306	Flagellates-Green	90	Melosira	72	1,260
4-15-69	Cyclo-Steph	414	Ankistrodesmus	378	Flagellates-Green	288	Peridinium	198	1,681
4-22-69	Ankistrodesmus	216	Peridinium	90	Melosira	72	Glenodinium	34	1,386
4-28-69	Cyclo-Steph	88	Pennate	44	Melosira	11	Anacystis	11	220
5-5-69	Cyclo-Steph	1,406	Melosira	74	Pennate	37	Ankistrodesmus	37	1,998
5-13-69	Cyclo-Steph	396	Pennate	198	Melosira	126	Ankistrodesmus	90	954
5-19-69	Pennate	60	Melosira	45	Scenedesmus	30	Cyclo-Steph	15	330
5-26-69	Melosira	11	Pennate	11					22

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Baldwin (Station C-2104)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
6-12-69	Coccoid-Green	36	Cyclo-Steph	27	Phacus	9			72
6-23-69	Phacus	99	Oocystis	18	Ankistrodesmus	9	Pediastrum	9	180
7-8-69	Melosira	9	Staurastrum	9	Oedogonium	9	Filamentous-Green	9	54
7-24-69	Flagellate-Green	558	Pennate	54	Oocystis	54	Ceratium	18	684
8-4-69	Unidentified Aphanizomenon	231	Oedogonium	88	Cosmarium	11	Oocystis	11	407
8-18-69	Aphanizomenon	44	Staurastrum	22	Pennate	11	Cosmarium	11	198
9-2-69	Staurastrum	121	Coccoid-Blue-Green	44	Oocystis	33	Cosmarium	22	363
*									
9-30-69	Cyclo-Steph	62	Ankistrodesmus	49	Pennate	37	Melosira	12	467
10-13-69	Cyclo-Steph	97	Coccoid-Green	43	Anacystis	32	Staurastrum	22	335
10-27-69	Pennate	151	Cyclo-Steph	130	Staurastrum	54	Anacystis	22	421
11-10-69	Cyclo-Steph	120	Melosira	28	Coccoid-Green	18	Pennate	9	275
11-26-69	Cyclo-Steph	119	Pennate	43	Coccoid-Green	32	Oocystis	22	315
12-8-69	Cyclo-Steph	119	Scenedesmus	22	Coelastrum	11	Franceia	11	262
*9-15-69	Staurastrum	44	Oocystis	33	Cosmarium	11	Pediastrum	11	220

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Nottingham (Station D-2301)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	180	Ankistrodesmus	90	Pediastrum	18	Scenedesmus	18	342
1-14-69	Cyclo-Steph	66	Diatoms-Pennate Unidentified	44	Fragilaria	22			132
1-21-69	Coccoid-Green Unidentified	72	Cyclo-Steph	63	Ankistrodesmus	18	Diatoma	9	198
1-30-69	Cyclo-Steph	360	Diatoms-Pennate Unidentified	90	Fragilaria	18	Oocystis	18	558
2-4-69	Cyclo-Steph	257	Flagellates-Green Unidentified	54	Fragilaria	41	Melosira	27	729
2-11-69	Pennate	84	Melosira	24	Oocystis	12	Pediastrum	12	204
2-18-69	Filamentous-Green Unidentified	108	Cyclo-Steph	60	Ankistrodesmus	36	Diatoma	24	360
2-26-69	Cyclo-Steph	216	Coccoid-Green Unidentified	60	Pennate	36	Melosira	24	420
3-4-69	Cyclo-Steph	126	Pennate*	99	Coccoid-Green Unidentified	27	Ankistrodesmus	18	306
3-13-69	Cyclo-Steph	594	Pennate	88	Ankistrodesmus	44	Cyclo-Steph	22	748
3-18-69	Cyclo-Steph	2,332	Pennate	264	Ankistrodesmus	132	Schroederia	88	2,948
3-26-69	Pennate	660	Cyclo-Steph	132	Melosira	44	Ankistrodesmus	22	990
4-1-69	Pennate	740	Cyclo-Steph	555	Ankistrodesmus	111	Melosira	74	1,591
4-9-69	Pennate	150	Ankistrodesmus	135	Peridinium	45	Melosira	30	480
4-15-69	Cyclo-Steph	156	Flagellates-Green	96	Pennate	72	Coccoid-Green	48	564
4-23-69	Ankistrodesmus	88	Melosira	66	Micractinium	44	Staurastrum	22	704
4-28-69	Cyclo-Steph	360	Ankistrodesmus	72	Pennate	54	Coccoid-Green	36	612
5-7-69	Cyclo-Steph	435	Ankistrodesmus	60	Melosira	15	Pennate	15	600
5-13-69	Cyclo-Steph	1,008	Pennate	342	Melosira	180	Scenedesmus	36	1,692
5-26-69	Pennate	33	Coccoid-Green	22	Ankistrodesmus	11			99
6-12-69	Pennate	18	Cyclo-Steph	9	Oocystis	9	Oedogonium	9	72
6-23-69	Scenedesmus	18	Pennate	9	Cyclo-Steph	9	Trachelomonas	9	63
7-8-69	Cyclo-Steph	44	Pennate	22	Ankistrodesmus	11	Oocystis	11	154
7-24-69	Oocystis	45	Oedogonium	27	Pennate	18	Cyclo-Steph	9	108

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Nottingham (Station D-2301)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml
8-4-69	Cosmarium	33	Oocystis	33	Oedogonium	33	Flagellates-Green Unidentified	11	110
8-18-69	Oocystis	33	Cosmarium	22	Pennate	11	Ankistrodesmus	11	242
9-2-69	Staurastrum	143	Pennate	22	Oocystis	11	Ceratium	11	253
9-15-69	Staurastrum	66	Pennate	44	Oocystis	22	Cosmarium	11	264
10-13-69	Pennate	77	Cyclo-Steph	66	Flagellates-Green	44	Pediastrum	33	407
10-27-69	Cyclo-Steph	367	Pennate	173	Micractinium	43	Pediastrum	22	626
11-10-69	Cyclo-Steph	172	Scenedesmus	49	Staurastrum	37	Pennate	25	393
11-26-69	Cyclo-Steph	65	Dactylococcus	43	Pediastrum	22	Pennate	11	196
11-26-69	Cyclo-Steph	46	Staurastrum	18	Melosira	9	Trachelomonas	9	146
12-8-69	Cyclo-Steph	370	Pennate	277	Melosira	37	Pediastrum	18	865

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Eastlake-CEI (Station E-2501)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	54	Asterionella	18	Diatoms-Pennate Unidentified	18	Ankistrodesmus	18	180
1-29-69	Melosira	22	Cyclo-Steph	11	Ankistrodesmus	11			66
2-5-69	Diatoms-Pennate Unidentified	225	Cyclo-Steph	75	Melosira	60	Diatoma	30	420
2-19-69	Cyclo-Steph	63	Ankistrodesmus	27	Pennate	9	Trachelomonas	9	135
3-3-69	Cyclo-Steph	96	Pennate	72	Coccoid-Green Unidentified	60	Phacus	24	396
3-17-69	Cyclo-Steph	2,508	Phacus	220	Pennate	176	Ankistrodesmus	88	3,080
4-1-69	Pennate	450	Melosira	45	Peridinium	15	Coccoid-Green Unidentified	15	540
4-16-69	Ankistrodesmus	660	Cyclo-Steph	308	Green-Flagellates Unidentified	264	Pennate	176	1,848
4-28-69	Cyclo-Steph	264	Ankistrodesmus	216	Pennate	156	Melosira	72	936
5-28-69	Pennate	135	Cyclo-Steph	105	Ankistrodesmus	30	Coelastrum	15	330
6-10-69	Cyclo-Steph	63	Pennate *	9	Oocystis	9	Coccoid-Green Unidentified	9	99
6-23-69	Pennate	36	Melosira	18	Scenedesmus	9	Oedogonium	9	126
7-7-69	Staurastrum	27	Coccoid-Green Unidentified	18	Pennate	9	Oocystis	9	63
7-22-69	Green Flagellates Unidentified	108	Oocystis	45	Pennate	36	Melosira	27	306
8-7-69	Aphanizomenon	187	Ankistrodesmus	110	Oedogonium	44	Oocystis	22	495
8-20-69	Pennate	616	Green Flagellates Unidentified	528	Tetraedron	110	Cosmarium	88	2,156
9-2-69	Pennate	144	Cyclo-Steph	126	Anabaena	54	Gomphospaeria	36	666
9-15-69	Trachelomonas	176	Staurastrum	110	Pennate	88	Coccoid-Green Unidentified	66	858

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Eastlake-CEI (Station E-2501)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
10-2-69	Cyclo-Steph	72	Schroederia	54	Scenedesmus	36	Pennate	18	432
10-13-69	Green Flagellates Unidentified	165	Cyclo-Steph	105	Pennate	75	Schroederia	60	690
10-28-69	Cyclo-Steph	108	Coccoid-Green Unidentified	22	Phacus	11	Glenodinium	11	173
11-10-69	Cyclo-Steph	108	Tetraedron	65	Green Flagellates Unidentified	22	Golenkinia	11	229
11-26-69	Cyclo-Steph	138	Melosira	18	Ankistrodesmus	9	Pediastrum	9	174
12-8-69	Cyclo-Steph	324	Staurastrum	43	Green Flagellates Unidentified	22	Coelastrum	11	455

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Ohio Water Service-Mentor (Station E-2601)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	108	Melosira	54	Asterionella	36	Fragilaria	18	414
1-14-69	Coccoid-Green Unidentified	27	Cyclo-Steph	18	Ankistrodesmus	9	Tetrastrum	9	90
1-21-69	Coccoid-Green Unidentified	27	Cyclo-Steph	18	Ankistrodesmus	9			54
1-28-69	Cyclo-Steph	33	Asterionella	11	Staurastrum	11			55
2-4-69	Cyclo-Steph	156	Diatoma	60	Flagellates-Green Unidentified	36	Fragilaria	24	432
2-11-69	Cyclo-Steph	84	Diatoma	36	Aterionella	24	Tetraedron	12	252
2-18-69	Diatoms-Pennate Unidentified	121	Cyclo-Steph	33	Coccoid-Green Unidentified	22	Melosira	11	187
2-25-69	Pennate	81	Cyclo-Steph	72	Ankistrodesmus	27	Tetrastrum	18	270
3-4-69	Cyclo-Steph	120	Coccoid-Green Unidentified	60	Pennate	48	Tetrastrum	36	348
3-11-69	Cyclo-Steph	5,764	Pennate *	220	Coccoid-Green Unidentified	176	Flagellates-Green Unidentified	88	6,468
3-18-69	Cyclo-Steph	5,550	Pennate	407	Ankistrodesmus	74	Tetrastrum	37	6,105
3-25-69	Cyclo-Steph	3,256	Pennate	484	Phacus	176	Melosira	88	4,488
4-1-69	Pennate	440	Flagellates-Green Unidentified	132	Melosira	88	Trachelomonas	44	792
4-8-69	Pennate	330	Flagellates-Green Unidentified	110	Melosira	88	Coccoid-Green	44	682
4-15-69	Flagellates-Green Unidentified	286	Melosira	110	Pennate	44	Dinobryon	22	572
4-22-69	Pennate	629	Ankistrodesmus	296	Cyclo-Steph	222	Melosira	148	1,480

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Ohio Water Service-Mentor (Station E-2601)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
4-28-69	Cyclo-Steph	195	Peridinium	135	Phacus	60	Pennate	30	525
5-28-69	Cyclo-Steph	360	Ankistrodesmus	180	Melosira	90	Pennate	54	738
6-11-69	Cyclo-Steph	18	Melosira	9	Lagerheimia	9			54
6-23-69	Cyclo-Steph	36	Staurastrum	27	Oocystis	18	Pennate	9	153
7-7-69	Pennate	108	Pediastrum	27	Cyclo-Steph	18	Coelastrum	9	216
7-24-69	Oocystis	66	Oedogonium	55	Cyclo-Steph	22	Pennate	22	176
8-7-69	Mougeotia	66	Coccoid-Green Unidentified	55	Oocystis	44	Schroederia	33	374
8-20-69	Pennate	360	Flagellates-Green Unidentified	180	Staurastrum	120	Cosmarium	90	1,245
9-4-69	Staurastrum	153	Cyclo-Steph	27	Pediastrum	18	Pennate	9	261
9-15-69	Staurastrum	154	Flagellates-Green Unidentified	110	Cryptomonas	88	Pennate	66	726
10-2-69	Pennate	92	Cyclo-Steph	37	Staurastrum	28	Coccoid-Green Unidentified	18	2,208
10-15-69	Cyclo-Steph	225	Pennate	60	Staurastrum	45	Oocystis	30	495
10-29-69	Cyclo-Steph	22	Staurastrum	22					43
11-10-69	Cyclo-Steph	166	Pennate	18	Schroederia	9	Staurastrum	9	229
12-10-69	Cyclo-Steph	139	Dactylococcus	28	Scenedesmus	18	Pennate	9	284
12-23-69	Cyclo-Steph	216	Pennate	86	Coelastrum	29	Oocystis	14	458

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Painesville (Station F-2718)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	36	Asterionella	18	Diatoms-Pennate Unidentified	18	Scenedesmus	18	126
1-16-69									0
1-21-69	Diatoms-Pennate Unidentified	11	Phacus	11					22
1-28-69	Cyclo-Steph	27	Ankistrodesmus	9	Scenedesmus	9	Oedogonium	9	81
2-4-69	Cyclo-Steph	216	Ankistrodesmus	54	Asterionella	36	Diatoma	18	378
2-11-69	Cyclo-Steph	33	Asterionella	11	Diatoma	11	Ankistrodesmus	11	110
2-18-69	Ankistrodesmus	55	Cyclo-Steph	22	Asterionella	11	Diatoms-Pennate Unidentified	11	121
2-25-69	Pennate	88	Cyclo-Steph	44	Green Flagellates Unidentified	22	Melosira	11	176
3-4-69	Cyclo-Steph	135	Coccoid-Green Unidentified	90	Pennate	75	Green Flagellates Unidentified	45	405
3-11-69	Cyclo-Steph	6,644	Pennate*	352					6,996
3-18-69	Cyclo-Steph	4,224	Pennate	132	Peridinium	88	Ankistrodesmus	44	4,708
3-25-69	Cyclo-Steph	3,071	Pennate	555	Tetrastrum	148	Ankistrodesmus	74	3,922
4-1-69	Pennate	616	Melosira	66	Scenedesmus	22	Peridinium	22	726
4-8-69	Pennate	306	Cyclo-Steph	234	Green Flagellates Unidentified	180	Ankistrodesmus	126	1,062
4-15-69	Pennate	396	Green Flagellates Unidentified	308	Phacus	264	Cyclo-Steph	88	1,188
4-22-69	Cyclo-Steph	414	Pennate	324	Melosira	234	Ankistrodesmus	198	1,278
4-28-69	Pennate	110	Green Flagellates Unidentified	88	Phacus	66	Dinobryon	22	682
5-28-69	Ankistrodesmus	384	Cyclo-Steph	204	Pennate	72	Scenedesmus	12	732
6-11-69	Pennate	45	Pediastrum	18	Pteromonas	9	Filamentous Green Unidentified	9	126

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Painesville (Station F-2718)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
6-23-69	Cyclo-Steph	45	Pennate	18	Oocystis	9	Green Flagellates Unidentified	9	162
7-7-69	Cyclo-Steph	165	Pennate	105	Coelastrum	45	Oedogonium	30	435
7-24-69	Pennate	252	Cyclo-Steph	180	Filamentous Green Unidentified	144	Oocystis	72	1,008
8-7-69	Green Flagellates Unidentified	66	Dictyosphaerium	33	Ankistrodesmus	22	Cosmarium	11	220
8-20-69	Green Flagellates Unidentified	180	Pennate	105	Pediastrum	90	Staurastrum	60	855
9-4-69	Staurastrum	345	Pennate	75	Coccoid-Blue-Green-Unidentified	60	Anacystis	30	600
9-15-69	Staurastrum	180	Coccoid-Green Unidentified	75	Coccoid-Blue-Green-Unidentified	60	Pennate	45	525
10-2-69	Cyclo-Steph	48	Cosmarium	36	Pennate	24	Actinastrum	12	432
10-15-69	Cyclo-Steph	143	Pediastrum	121	Green Flagellates Unidentified	44	Anacystis	33	418
10-29-69	Pennate	115	Cyclo-Steph	101	Staurastrum	86	Melosira	29	461
11-10-69	Cyclo-Steph	76	Scenedesmus	22	Pennate	11	Oocystis	11	175
11-28-69	Cyclo-Steph	147	Pennate	92	Melosira	18	Staurastrum	9	338
12-10-69	Cyclo-Steph	212	Pennate	28	Melosira	18	Scenedesmus	9	330
12-23-69	Cyclo-Steph	166	Pennate	120	Melosira	55	Closteriopsis	18	413

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Ohio Water Service-Madison (Station G-3001)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-3-69	Cyclo-Steph	90	Ankistrodesmus	54	Melosira	18	Schroederia	18	270
1-7-69	Cyclo-Steph	90	Melosira	18					108
1-14-69	Cyclo-Steph	36	Phacus	27	Closteriopsis	9	Oocystis	9	135
1-21-69	Coccoid-Green Unidentified	27	Cyclo-Steph	18	Oocystis	9			54
1-28-69	Cyclo-Steph	99	Melosira	18	Oocystis	9	Peridinium	9	180
2-4-69	Diatoms-Pennate Unidentified	44	Cyclo-Steph	11	Melosira	11	Cymbella	11	110
2-11-69	Cyclo-Steph	54	Ankistrodesmus	18	Melosira	9	Asterionella	9	126
2-18-69	Cyclo-Steph	68	Diatoma	27	Melosira	14	Ankistrodesmus	14	243
2-25-69	Cyclo-Steph	999	Coccoid-Green Unidentified	74	Ankistrodesmus	37			1,110
3-4-69	Cyclo-Steph	684	Pennate *	162	Melosira	36	Ankistrodesmus	18	918
3-11-69	Cyclo-Steph	2,552	Pennate	44	Dinobryon	44			2,640
3-18-69	Cyclo-Steph	2,772	Pennate	220	Franceia	132	Peridinium	44	3,212
3-25-69	Cyclo-Steph	3,293	Pennate	705	Ankistrodesmus	185	Tetrastrum	111	4,699
4-1-69	Cyclo-Steph	216	Coccoid-Green	90	Ankistrodesmus	72	Melosira	18	756
4-8-69	Pennate	378	Cyclo-Steph	306	Ankistrodesmus	126	Melosira	90	1,080
4-15-69	Flagellates-Green Unidentified	176	Melosira	154	Ankistrodesmus	110	Pennate	88	726
4-22-69	Melosira	156	Ankistrodesmus	36	Staurastrum	12	Coccoid-Green Unidentified	12	624
4-28-69	Pennate	154	Phacus	110	Peridinium	88	Melosira	44	594
5-28-69	Pennate	75	Melosira	45	Ankistrodesmus	15	Staurastrum	15	255
6-11-69	Pennate	18	Oocystis	9	Pediastrum	9	Flagellates-Green Unidentified	9	63
6-23-69	Staurastrum	27	Pennate	18	Coelastrum	9			108

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Ohio Water Service-Madison (Station G-3001)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
7-7-69	Cyclo-Steph	154	Oedogonium	66	Melosira	22	Ankistrodesmus	22	308
7-24-69	Oedogonium	132	Oocystis	110	Pennate	33	Cyclo-Steph	22	341
8-7-69	Oocystis	44	Coccoid-Green Unidentified	33	Oedogonium	22	Pennate	11	231
8-20-69	Pennate	66	Staurastrum	44	Cosmarium	33	Ceratium	22	407
9-4-69	Staurastrum	88	Coccoid-Green Unidentified	33	Anabaena	22	Pennate	11	253
9-15-69	Phacotus	120	Staurastrum	75	Anacystis	60	Trachelomonas	45	495
10-2-69	Cyclo-Steph	108	Pennate	84	Cosmarium	60	Oocystis	24	540
10-15-69	Cyclo-Steph	110	Pediastrum	66	Pennate	55	Staurastrum	44	506
10-29-69	Cyclo-Steph	18	Ankistrodesmus	9	Pediastrum	9			37
11-10-69	Cyclo-Steph	46	Staurastrum	28	Pennate	9	Cosmarium	9	128
11-28-69	Cyclo-Steph	295	Pennate	111	Melosira	37	Coelastrum	18	589
12-10-69	Cyclo-Steph	65	Anacystis	28	Oocystis	18	Pennate	9	210
12-23-69	Cyclo-Steph	648	Pennate	302	Melosira	86	Scenedesmus	43	1,337

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Ashtabula (Station G-3303)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-69	Cyclo-Steph	162	Tetrastrum	54	Ankistrodesmus	36	Melosira	18	324
1-14-69	Cyclo-Steph	33	Trachelomonas	11					77
1-21-69	Cyclo-Steph	9	Ankistrodesmus	9					18
1-28-69	Cyclo-Steph	81	Asterionella	41	Gomphonema	27	Melosira	14	243
2-4-69	Melosira	33	Cyclo-Steph	22	Fragilaria	11	Phacus	11	132
2-11-69	Cyclo-Steph	324	Green Flagellates Unidentified	81	Ankistrodesmus	54	Tetrastrum	27	486
2-18-69	Cyclo-Steph	171	Pennate *	63	Ankistrodesmus	45	Phacus	27	396
2-25-69	Cyclo-Steph	1,206	Pennate	54	Ankistrodesmus	36	Coccoid-Green Unidentified	18	1,314
3-4-69	Cyclo-Steph	2,288	Pennate	132	Melosira	44			2,464
3-11-69	Cyclo-Steph	4,329	Pennate	185	Coccoid-Green Unidentified	111	Ankistrodesmus	74	4,884
3-18-69	Cyclo-Steph	2,331	Pennate	148	Ankistrodesmus	37	Franceia	37	2,590
3-26-69	Pennate	1,364	Cyclo-Steph	396	Ankistrodesmus	132	Melosira	44	2,120
4-1-69	Pennate	345	Cyclo-Steph	90	Green Flagellates Unidentified	60	Melosira	45	585
4-9-69	Cyclo-Steph	504	Pennate	198	Ankistrodesmus	90	Melosira	72	1,116
4-15-69	Cyclo-Steph	288	Pennate	234	Melosira	162	Ankistrodesmus	90	1,008
4-28-69	Cyclo-Steph	450	Melosira	396	Pennate	216	Ankistrodesmus	180	1,332
5-7-69	Pennate	252	Cyclo-Steph	216	Melosira	144	Trachelomonas	18	810
5-28-69	Cyclo-Steph	162	Melosira	54	Pennate	45	Scenedesmus	18	343
6-11-69	Cyclo-Steph	18	Scenedesmus	18					36
6-23-69	Cyclo-Steph	45	Pennate	18	Ankistrodesmus	9	Pediastrum	9	126
7-7-69	Pennate	308	Cyclo-Steph	132	Melosira	22	Oocystis	22	528
7-24-69	Pennate	45	Oedogonium	36	Oocystis	18	Scenedesmus	9	117

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identifie after February 1969.

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Ashtabula (Station G-3303)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
8-6-69	Coccoid-Green	44	Ankistrodesmus	22	Oocystis	11	Staurastrum	11	132
8-20-69	Unidentified Pennate	165	Staurastrum	77	Cosmarium	55	Filamentous Green	44	550
9-3-69	Tetraedron	90	Cosmarium	18	Pennate	9	Unidentified Pediastrum	9	144
9-15-69	Staurastrum	330	Pennate	132	Phacotus	66	Cosmarium	44	836
10-2-69	Phacotus	64	Cyclo-Steph	54	Pennate	43	Anacystis	32	385
10-15-69	Cyclo-Steph	210	Pennate	105	Phacotus	30	Melosira	15	510
10-29-69	Cyclo-Steph	43	Pennate	32	Cosmarium	11	Oocystis	11	184
11-10-69	Cyclo-Steph	86	Pennate	32	Pediastrum	22	Oocystis	11	238
11-28-69	Cyclo-Steph	83	Staurastrum	37	Pennate	28	Melosira	18	256
12-10-69	Cyclo-Steph	230	Dactylococcus	72	Pennate	58	Micractinium	43	489
12-23-69	Cyclo-Steph	367	Pennate	86	Melosira	22	Scenedesmus	22	607

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Conneaut (Station H-3605)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-69	Scenedesmus	54	Coccoid-Green Unidentified	36	Cyclo-Steph	18	Melosira	18	144
1-14-69	Cyclo-Steph	45	Diatoma	9	Fragilaria	9	Oocystis	9	99
1-20-69	Cyclo-Steph	11	Melosira	11	Ankistrodesmus	11	Coccoid-Green Unidentified	11	44
1-28-69	Tetrastrum	54	Flagellates-Green Unidentified	41	Ankistrodesmus	27	Cyclo-Steph	14	216
2-3-69	Cyclo-Steph	99	Melosira	33	Asterionella	22	Diatoma	11	264
2-11-69	Flagellates-Green Unidentified	216	Cyclo-Steph	81	Diatoma	54	Ankistrodesmus	54	459
2-17-69	Cyclo-Steph	240	Diatoms-Pennate Unidentified	30	Melosira	15	Scenedesmus	15	315
2-25-69	Cyclo-Steph	486	Diatoma	36	Ankistrodesmus	18			576
3-3-69	Cyclo-Steph	1,320	Pennate*	198	Phacus	66	Melosira	22	1,672
3-11-69	Cyclo-Steph	1,980	Pennate	308					2,288
3-17-69	Cyclo-Steph	4,477	Pennate	148	Ankistrodesmus	148	Phacus	111	5,032
3-25-69	Pennate	88	Ankistrodesmus	66	Peridinium	33	Tetrastrum	11	330
4-1-69	Cyclo-Steph	1,548	Pennate	342	Ankistrodesmus	72	Melosira	54	2,232
4-8-69	Cyclo-Steph	550	Pennate	264	Flagellates-Green Unidentified	220	Melosira	11	1,320
4-15-69	Cyclo-Steph	738	Pennate	252	Melosira	90	Phacus	36	1,602
4-22-69	Ankistrodesmus	198	Cyclo-Steph	180	Melosira	72	Peridinium	36	1,026
4-28-69	Cyclo-Steph	156	Pennate	120	Melosira	84	Ankistrodesmus	60	540
5-28-69	Melosira	11	Pennate	11	Coelastrum	11			33
6-11-69	Cyclo-Steph	36	Pennate	27	Scenedesmus	18	Melosira	9	108
6-23-69	Pennate	45	Cyclo-Steph	36	Ankistrodesmus	9	Oocystis	9	126

*Beginning March 1969 the term "Pennate" is used in place of "Diatoms-Pennate" unidentified. Specific diatom genera were not identified after February 1969.

TABLE 8 (Concluded)

DOMINANT PHYTOPLANKTON

Conneaut (Station H-3605)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
7-7-69	Pennate	44	Scenedesmus	22	Cyclo-Steph	11	Coelastrum	11	99
7-24-69	Oedogonium	54	Pennate	45	Oocystis	45	Staurastrum	9	189
8-6-69	Oocystis	33	Oedogonium	22	Pennate	11	Cosmarium	11	143
8-20-69	Staurastrum	198	Flagellates-Green Unidentified	88	Oedogonium	55	Anacystis	44	627
9-4-69	Staurastrum	209	Oocystis	33	Cosmarium	22	Anabaena	11	352
9-15-69	Anacystis	99	Staurastrum	77	Phacotus	44	Pennate	33	396
10-2-69	Flagellates-Green Unidentified	180	Carteria	72	Eudorina	54	Chlamydomonas	36	684
10-15-69	Pennate	99	Cyclo-Steph	66	Anacystis	55	Scenedesmus	33	396
10-29-69	Cyclo-Steph	11	Coccoid-Green Unidentified	11	Trachelomonas	11			32
11-10-69	Cyclo-Steph	86	Staurastrum	32	Pennate	22	Coelastrum	11	173
11-28-69	Cyclo-Steph	47	Staurastrum	27	Pennate	18	Melosira	9	173
12-10-69	Cyclo-Steph	74	Dactylococcus	18	Scenedesmus	9	Schroederia	9	155
12-23-69	Cyclo-Steph	319	Melosira	106	Pennate	85	Lagerheimia	21	573